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MEDICAL SCIENCES.

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LEXIKON  
DER  
KOHLENSTOFF-VERBINDUNGEN  
SUPPLEMENT II.

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LEXIKON  
DER  
KOHLENSTOFF-VERBINDUNGEN

VON

M. M. RICHTER.

SUPPLEMENT II

UMFASSEND

DIE LITTERATURJAHRE 1901 UND 1902.



HAMBURG UND LEIPZIG  
VERLAG VON LEOPOLD VOSS  
1903

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## VORWORT.

Das Lexikon der Kohlenstoffverbindungen erfährt vom Jahre 1902 ab eine wesentliche Erweiterung. Anlass hierzu gab der Wunsch des Vorstandes der Deutschen chemischen Gesellschaft, auch für das Chemische Centralblatt die Formelregistrirung einzuführen, deren System im Jahre 1898 von den „Berichten“ und seitdem auch von anderen chemischen Zeitschriften des Inlands und Auslands angenommen worden ist. Die Verhandlungen mit dem Vorstande der Deutschen chemischen Gesellschaft führten zu dem Ergebniss, dass aus verschiedenen Gründen es vortheilhafter sei, ein solches Register für das Chemische Centralblatt zunächst für eine gewisse Zeit mit dem Lexikon zu verbinden.

Bei der Bearbeitung des jetzt vorliegenden II. Supplements sind demgemäss von Beginn des Centralblatt-Jahrgangs 1902 ab nicht nur die Citate der Originallitteratur, sondern auch die entsprechenden Citate der Centralblatt-Referate aufgenommen, sodass das Lexikon vom Beginn des Jahres 1902 nunmehr auch ein Formelregister für das von der Deutschen chemischen Gesellschaft herausgegebene Chemische Centralblatt bilden wird.

Diese kombinierten Citate sind gekennzeichnet durch das Fehlen des trennenden und sonst gebrauchten Semikolon.

z. B. (*C. r.* 133, 938 *C.* 1902 [1] 207)

oder (*J. pr.* [2] 64, 87, 97; *J. pr.* [2] 65, 302 *C.* 1902 [1] 1233)

oder (*B.* 35, 2144 *C.* 1902 [2] 260; *B.* 35, 3590 *C.* 1902 [2] 1357).

Die Citate *C. r.* 133, 938 und *C.* 1902 [1] 207 im ersten Beispiel beziehen sich also auf eine und dieselbe Arbeit, auf die französische Originalarbeit und das entsprechende deutsche Referat. Es unterliegt wohl keinem Zweifel, dass dieser doppelte Litteratur-Hinweis in vielen Fällen sich nützlich erweisen wird, insbesondere auch im Hinblick auf die ausserordentliche, starke Vermehrung der organischen Verbindungen, welche vor kurzem das „Hunderttausend“ überschritten.

Herrn Prof. Dr. P. Jacobson, Berlin, welcher im Auftrage des Vorstandes der Deutschen chemischen Gesellschaft die betreffenden Verhandlungen mit mir führte, möchte ich an dieser Stelle für seine Rathschläge und für die liebevolle Behandlung dieser für uns Alle so wichtigen Angelegenheit meinen wärmsten Dank aussprechen.

Die im I. Supplement zur Anwendung gelangten neuen Abkürzungen, nämlich:

- 1) ein „*Stern*“ vor der Ordnungsnummer bedeutet, dass die Verbindung schon im Stammwerk unter der gleichen Nummer beschrieben ist,
  - 2) die mit einem „*Stern*“ versehene „*Beilstein-Notiz*“ bezieht sich auf die Supplemente,
- gelten auch für das II. Supplement.

Karlsruhe in Baden, März 1903.

**M. M. Richter.**

# Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.

<i>A.</i>	LIEBIG's Annalen der Chemie.
<i>A. ch.</i>	Annales de chimie et de physique.
<i>Am.</i>	American chemical Journal.
<i>Am. Soc.</i>	Journal of the American chemical Society.
<i>A. Pth.</i>	Archiv für experimentelle Pathologie und Pharmakologie.
<i>Ar.</i>	Archiv der Pharmacie.
<i>B.</i>	Berichte der Deutschen chemischen Gesellschaft.
<i>Bl.</i>	Bulletin de la société chimique de Paris.
<i>Bulet.</i>	Buletinul societății de științe din București.
<i>C.</i>	Chemisches Centralblatt.
<i>C. r.</i>	Comptes rendus de l'académie des sciences.
<i>Ch. J.</i>	Chemische Industrie.
<i>Ch. Z.</i>	Chemiker-Zeitung (Cöthen).
<i>Chem. N.</i>	Chemical News.
<i>D.</i>	DINGLER's Polytechnisches Journal.
<i>D.R.P.</i>	Patentschrift des Deutschen Reiches.
<i>El. Ch. Z.</i>	Elektrochemische Zeitschrift.
<i>Fr.</i>	(FRESSENIUS') Zeitschrift für analytische Chemie.
<i>Frdl.</i>	FRIEDLÄNDER's Fortschritte der Theerfarbenfabrication (Berlin, SPRINGER).
<i>G.</i>	Gazzetta chimica italiana.
<i>Gm.</i>	L. GMELIN's Handbuch der organischen Chemie. 4. Aufl. Band 1—4 (1848—1870) und Supplementband 1—2 (1867—1868).
<i>Grh.</i>	GERHARDT, Traité de chimie organique. 4 Bände. (1853—1856).
<i>H.</i>	(HOPPE-SEYLER's) Zeitschrift für physiologische Chemie.
<i>J.</i>	Jahresbericht der Chemie.
<i>J. pr.</i>	Journal für praktische Chemie.
<i>J. r.</i>	Journal der russischen physikalisch-chemischen Gesellschaft.
<i>J. Th.</i>	Jahresbericht der Thierchemie.
<i>L. V. St.</i>	Landwirthschaftliche Versuchsstationen.
<i>M.</i>	Monatshefte für Chemie.
<i>P.</i>	POGGENDORFF's Annalen der Physik und Chemie.
<i>P. C. H.</i>	Pharmaceutische Centralhalle.
<i>P. Ch. S.</i>	Proceedings of the Chemical Society.
<i>Ph. Ch.</i>	Zeitschrift für physikalische Chemie.
<i>R.</i>	Recueil des travaux chimiques des Pays-Bas.
<i>R. A. L.</i>	Atti della reale Accademia dei Lincei (RENDICONTI)
<i>Soc.</i>	Journal of the chemical Society of London.
<i>W.</i>	Annalen der Physik (WIEDEMANNS).
<i>Z.</i>	Zeitschrift für Chemie.
<i>Z. a. Ch.</i>	Zeitschrift für anorganische Chemie.
<i>Z. Ang.</i>	Zeitschrift für angewandte Chemie.
<i>Z. B.</i>	Zeitschrift für Biologie.
<i>Z. El. Ch.</i>	Zeitschrift für Elektrochemie.
<i>Z. Kr.</i>	Zeitschrift für Krystallographie.



**Abkürzungen. — Abbreviations. — Abréviations. — Abbreviazioni.**

Anm.	Anmerkung	note	annotation	avvertenza
cor.	corrigirt	corrected	corrigé	corretto
d-	rechtsdrehend	dextrorotatory	destrogyre	destrogiro
f.	fest	solid	solide	solido
Fl.	flüssig	liquid	liquide	liquido
fum.	fumaroïd	fumaroid	fumaroïde	fumaroide
h.	hochschmelzend	high melting	fond à haute tempéra-	che fonde alto
i.	inactiv	inactive	inactif	inattivo
(i. D.)	im Dampf	in the vapour	dans la vapeur	nel vapore
isom.	isomer	isomeric	isomère	isomero
(i. V.)	im Vakuum	in a vacuum	dans le vide	nel vuoto
l.	linksdrehend	laevorotatory	lévogyre	levogiro
lab.	labil	unstable	instable	labile
m.	meta	meta	méta	meta
mal.	maleinöid	malenoid	malénoïde	maleinoide
norm.	normal	normal	normal	normal
o.	ortho	ortho	ortho	orto
p.	para	para	para	para
R.	Ring (cyklo)	ring (cyclic)	noyau (cyclo)	anello (cielo)
s.	symmetrisch	symmetrical	symétrique	simmetrico
Sd.	Siedepunkt	boiling point	point d'ébullition	punto di ebullizione
Sm.	Schmelzpunkt	melting point	point de fusion	punto di fusione
stab.	stabil	stable	stable	stabile
u. Zers.	unter Zersetzung	with decomposition	en se décomposant	con decomposizione
unc.	uncorrigirt	uncorrected	non corrigé	non corretto
uns.	unsymmetrisch	unsymmetrical	asymétrique	asimmetrico
Verb.	Verbindung	compound	combinaison	combinazione (com- [posto])

Häufiger vorkommende deutsche Ausdrücke.	Frequently occurring German Expressions.	Mots allemands souvent employés.	Vocaboli tedeschi pui frequentemente usati.
Base	base	base	base
Kohlenwasserstoff	hydrocarbon	hydrocarbure	idrocarburo
Lit. (Literatur) be- deutend	literature abundant	bibliographie consi- dérable	Letteratura ricca, copiosa
Säure	acid	acide	acido
Salze meist bek. (be- kannt)	most salts known	beaucoup de sels connus	i sali sono in gran parte noti
Verbindung aus	compound of	dérivé de	composto ottenuto da
aus	from	de	da
bei	at	à	a
oder	or	ou	o (oppure)
siehe auch	see also	à comparer	vedi anche
wasserfrei	anhydrous	anhydre	anidro



- 1) Ein „Stern“ vor der Ordnungsnummer bedeutet, dass die Verbindung schon im Stammwerk unter der gleichen Nummer beschrieben ist.  
 2) Die mit einem „Stern“ versehene „Beilstein-Notiz“ bezieht sich auf die Ergänzungsbände.

### C<sub>1</sub>-Gruppe.

- CH<sub>4</sub> \*1) Methan (*C. r.* 134, 389 *C. 1902* [1] 708; *C. r.* 134, 514 *C. 1902* [1] 802; *C. 1901* [2] 1250; *1902* [1] 851).  
 CCl<sub>4</sub> \*1) Tetrachlormethan (*C. 1901* [2] 1042).  
 CS<sub>2</sub> \*1) Schwefelkohlenstoff (*C. 1902* [2] 1499).

### — 1 II —

- CHN \*1) Cyanwasserstoff (*C. 1902* [1] 32, 525; *Ph. Ch.* 39, 220; *Soc.* 81, 191 *C. 1902* [1] 525, 804).  
 CHCl<sub>3</sub> \*1) Trichlormethan (*C. 1901* [2] 1042; D.R.P. 129237 *C. 1902* [1] 789).  
 CHBr<sub>3</sub> \*1) Tribrommethan (*Bl.* [3] 25, 191; *Am.* 27, 63 *C. 1902* [1] 455; *C. r.* 134, 175 *C. 1902* [1] 455).  
 CH<sub>3</sub>J \*1) Trijodmethan (*C. 1902* [2] 1499).  
 CH<sub>3</sub>O \*1) Aldehyd d. Ameisensäure. Sm. — 92° (*B.* 34, 635, 1128; *B.* 34, 3733 *C. 1902* [1] 5; *C. 1902* [1] 710; *Bl.* [3] 27, 1066 *C. 1902* [2] 1505).  
 CH<sub>2</sub>O<sub>2</sub> \*1) Ameisensäure. Ca (*C. r.* 134, 261 *C. 1902* [1] 568; *Soc.* 81, 355 *C. 1902* [1] 981).  
 CH<sub>2</sub>N<sub>2</sub> \*1) Cyanamid. Na<sub>3</sub>, Mg + xH<sub>2</sub>O (*C. 1901* [2] 1100; *A.* 314, 363; *Am.* 28, 105 *C. 1902* [2] 788).  
 CH<sub>3</sub>N<sub>4</sub> \*1) 1,2,3,5-Tetrazol (*B.* 34, 3118).  
 CH<sub>2</sub>Br<sub>2</sub> \*1) Dibrommethan (*Bl.* [3] 25, 193).  
 CH<sub>3</sub>N<sub>5</sub> \*1) 5-Amido-1,2,3,4-Tetrazol. HNO<sub>3</sub> (*A.* 314, 351, 362).  
 2) Imidoamidotriazomethan (Diazoguanidin; Carbamidimidazid). HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat (*A.* 270, 46; 314, 339). — I, 1495.  
 CH<sub>2</sub>Br \*1) Brommethan (*Bl.* [3] 25, 193).  
 CH<sub>3</sub>O \*1) Methylalkohol. 10 + AlCl<sub>3</sub> (*Bl.* [3] 25, 552).  
 CH<sub>2</sub>O<sub>3</sub> \*1) Methansuperoxyd (Methylhydroperoxyd) (*B.* 34, 748).  
 CH<sub>3</sub>N \*1) Methylamin. 2HCl + MoOCl<sub>3</sub> (*B.* 34, 1574; *C. 1902* [1] 3; *C. r.* 135, 226 *C. 1902* [2] 636).  
 CH<sub>3</sub>N<sub>3</sub> \*1) Guanidin. Salze siehe (*Am.* 25, 173; *C. 1902* [1] 534).  
 CH<sub>3</sub>As \*1) Methylarsin. Sd. 755° (*B.* 34, 3594).  
 CNCl \*1) Chloreyan (*Soc.* 81, 195 *C. 1902* [1] 525).  
 CNBr \*1) Bromcyan (*Soc.* 81, 196 *C. 1902* [1] 525).  
 CNJ \*1) Jodecyan (*Soc.* 81, 197 *C. 1902* [1] 525).  
 CBr<sub>2</sub>S<sub>2</sub> \*1) Verbindung (aus Perbrommethyltrisulfid) (*C. 1901* [1] 1193).

### — 1 III —

- CHON \*2) Isocyansäure (*Soc.* 81, 191 *C. 1902* [1] 525, 804; *Soc.* 81, 290 *C. 1902*, [1] 526).  
 \*4) Cyamelid (*Soc.* 81, 291 *C. 1902* [1] 526).  
 CHO<sub>2</sub>N<sub>3</sub> \*1) Trinitromethan (*B.* 35, 1005 *C. 1902* [1] 868).  
 CHNS \*1) Rhodanwasserstoff (*B.* 35, 2191 *C. 1902* [2] 542).

- $\text{CH}_3\text{ON}_4$  \*1) Azid d. Amidoameisensäure (A. 314, 353, 361).  
 2) 5-Oxy-1,2,3,4-Tetrazol. Sm. 254° (B. 34, 3120).  
 $\text{CH}_3\text{N}_4\text{S}$  2) 5-Merkapto-1,2,3,4-Tetrazol. Sm. 205° u. Zers.  $\text{Na} + 1\frac{1}{2}\text{H}_2\text{O}$  (B. 34, 3117).  
 $\text{CH}_3\text{OCl}$  \*2)  $\alpha$ -Chlor- $\alpha$ -Oxymethan (Chlormethylalkohol) (A. 316, 157).  
 $\text{CH}_3\text{OBr}$  \*1)  $\alpha$ -Brom- $\alpha$ -Oxymethan (A. 316, 190).  
 $\text{CH}_3\text{OAs}$  \*1) Arsenmethyloxyd. Sm. 95° (B. 34, 3597).  
 $\text{CH}_3\text{O}_2\text{N}$  \*1) Nitromethan (C. 1902 [1] 3).  
 \*4) Formhydroxamsäure.  $\text{Cu} + \text{H}_2\text{O}$  (G. 31, [2] 91).  
 $\text{CH}_3\text{O}_2\text{N}$  \*1) Nitrat d. Oxymethan (Methylnitrat) (C. 1902 [1] 4).  
 $\text{CH}_3\text{O}_2\text{N}_2$  \*1) Nitroharnstoff (Soc. 79, 1326 C. 1902 [1] 30).  
 $\text{CH}_3\text{NS}$  1) Amid d. Thioameisensäure. Fl. (B. 11, 340; 32, 1497). — \*I, 697.  
 1) Magnesiummethyljodid. Zers. bei 255° (C. 1901 [2] 622).  
 $\text{CH}_3\text{JMg}$  \*1) Harnstoff. K, K<sub>2</sub> (H. 33, 362; C. 1901 [2] 1335; 1902 [1] 20; H. 34, 28 C. 1902 [1] 30; B. 34, 3786 C. 1902 [1] 31; A. 322, 313 C. 1902 [2] 428; Am. 28, 97 C. 1902 [2] 788; Ph. Ch. 41, 601 C. 1902 [2] 935).  
 4) Diazomethanhydrat (Methylazosäure).  $\text{Na} + \text{H}_2\text{O}$ ,  $\text{K} + \text{H}_2\text{O}$ ,  $\text{K} + \text{C}_2\text{H}_6\text{O}$ ,  $\text{Rb} + \text{H}_2\text{O}$  (B. 35, 902 C. 1902 [1] 856).  
 $\text{CH}_4\text{O}_2\text{N}_2$  \*1) Oxyharnstoff (G. 31 [2] 338 C. 1902 [1] 31).  
 \*2) Methylnitroamin (B. 35, 1004 C. 1902 [1] 868).  
 5) Oximidoamidooxymethan (Isooxyharnstoff). Sm. 70—72° u. Zers. HCl (G. 31 [2] 339 C. 1902 [1] 31).  
 $\text{CH}_4\text{O}_3\text{S}$  \*2) Monomethylester d. Schwefligensäure.  $\text{NH}_4$  (C. 1902 [2] 931).  
 $\text{CH}_3\text{N}_4\text{S}$  \*1) Thioharnstoff. HCl (C. 1902 [1] 20; Soc. 81, 79 C. 1902 [1] 113).  
 $\text{CH}_3\text{ON}_3$  \*2) Amidotharnstoff (Semicarbazid) (Soc. 79, 1327 C. 1902 [1] 31).  
 $\text{CH}_5\text{O}_3\text{As}$  \*1) Arsenmethylsäure. Sm. 161° (B. 34, 3597; C. r. 134, 1231 C. 1902 [2] 75; 1902 [2] 1498).

## — 1 IV —

- $\text{CH}_2\text{O}_3\text{N}_4\text{S}$  1) 1,2,3,4-Tetrazol-5-Sulfonsäure. Ag (B. 34, 3119).  
 $\text{CH}_3\text{O}_2\text{Cl}_2\text{P}$  1) Dichlorid d. Phosphorsäuremethylester. Sd. 62—64°<sub>15</sub> (Soc. 81, 502 C. 1902 [2] 1198).  
 $\text{CH}_5\text{O}_2\text{NS}$  \*1) Amid d. Methansulfonsäure. Sm. 90° (R. 21, 76 C. 1902 [1] 854).

**C<sub>2</sub>-Gruppe.**

- $\text{C}_2\text{H}_2$  \*1) Acetylen.  $\text{Cu}_2$ ,  $\text{Ag}_2$  (C. 1901 [2] 1250; M. 23, 199 C. 1902 [1] 1310; Ph. Ch. 40, 535 C. 1902 [2] 17; M. 23, 489 C. 1902 [2] 503; M. 23, 502 C. 1902 [2] 503).  
 $\text{C}_2\text{H}_4$  \*1) Aethen (Soc. 79, 915 C. 1901 [2] 1250; M. 23, 495).  
 $\text{C}_2\text{H}_6$  \*1) Aethan (C. r. 134, 389 C. 1902 [1] 708).  
 $\text{C}_2\text{N}_2$  \*1) Cyan (C. 1902 [1] 4, 32; Ph. Ch. 39, 217).  
 $\text{C}_2\text{Cl}_4$  \*1) Tetrachloräthen (C. 1902 [1] 4; B. 35, 1533 C. 1902 [1] 1202).  
 $\text{C}_2\text{Br}_4$  \*1) Tetrabromäthen. Sm. 56,5—57,5°; Sd. 226—227° (B. 35, 1530 C. 1902 [1] 1201; B. 35, 1536 C. 1902 [1] 1202).  
 $\text{C}_2\text{Hg}_2$  1) Kohlenstoffquecksilber +  $\text{H}_2\text{O}$  (Soc. 81, 1271 C. 1902 [2] 885).  
 $\text{C}_2\text{Sa}$  1) Kohlenstoffsamarium (C. 1901 [1] 85).

## — 2 II —

- $\text{C}_5\text{HBr}_5$  \*1) Pentabromäthan. Sm. 54—55° (Bl. [3] 25, 298).  
 $\text{C}_2\text{HJ}$  \*1) Jodäthin (B. 34, 2718).  
 $\text{C}_2\text{H}_2\text{O}_4$  \*1) Oxalsäure. Bariumsalze, Antimonpentachlorid-Verbind. (B. 34, 3313; B. 35, 1118 C. 1902 [1] 924).  
 $\text{C}_2\text{H}_3\text{Br}_4$  \*2)  $\alpha\alpha\beta\beta$ -Tetrabromäthan. Sd. 120°<sub>22</sub> (Bl. [3] 25, 298).  
 $\text{C}_2\text{H}_2\text{F}$  1)  $\alpha\alpha$ -Difluoräthen. Gas (C. 1901 [2] 804).  
 $\text{C}_2\text{H}_3\text{N}$  \*1) Nitril d. Essigsäure (C. 1901 [2] 83).  
 \*2) Methylisocyanid (M. 22, 494).  
 $\text{C}_2\text{H}_4\text{N}_2$  \*1) 1,2,3-Triazol. Sm. 23°; Sd. 203°<sub>739</sub> (B. 35, 1045 C. 1902 [1] 882).  
 \*2) 1,2,4-Triazol.  $\text{Cu}$ ,  $(2\text{HCl}, \text{PtCl}_4 + 6\text{H}_2\text{O})$ ,  $\text{HNO}_3$ , Oxalat, 2 +  $\text{PtCl}_4$  (G. 32 [1] 189 C. 1902 [1] 426, 668; Soc. 81, 602 C. 1902 [1] 747).

- $C_2H_5Cl$  \*1) Chloräthen (*B. 35*, 3524 *C. 1902* [2] 1301).  
 $C_2H_5Cl_3$  \*2)  $\alpha\alpha\beta$ -Trichloräthan. *Sd.* 113,5—114,5° (*B. 35*, 3526 *C. 1902* [2] 1301).  
 $C_2H_5Br$  \*1) Bromäthen. (*C. 1901* [2] 804).  
 $C_2H_5F$  1) Fluoräthen. (Gas). *Sd.* —51° (*C. 1901* [2] 804).  
 $C_2H_4O$  \*4) Aldehyd d. Essigsäure (*B. 34*, 3733 *C. 1902* [1] 5).  
 $C_2H_4O_2$  \*1) Essigsäure. Phenylhydrazinsalz, +  $SbCl_5$  (*B. 34*, 180; *B. 35*, 1116 *C. 1902* [1] 923; *Soc. 81*, 355 *C. 1902* [1] 981; *B. 35*, 2521 *C. 1902* [2] 435).  
 $C_2H_4O_4$  \*1) Glyoxylsäure. Salze siehe (*A. 317*, 147).  
 $C_2H_5N_2$  \*3) Nitril d. Amidoessigsäure. *Sd.* 58°<sub>15</sub> (*J. pr.* [2] 65, 189 *C. 1902* [1] 982).  
 4) Diazoäthan (*B. 31*, 2643). — \*I, 844.  
 $C_2H_4Br_2$  \*1)  $\alpha\alpha$ -Dibromäthan. *Sd.* 112—113° (*Bl.* [3] 25, 297).  
 \*2)  $\alpha\beta$ -Dibromäthan (*Bl.* [3] 25, 295; *B. 34*, 4217 *C. 1902* [1] 175).  
 $C_2H_5S_2$  1) polym. Aethylenedisulfid =  $(C_2H_5S_2)_n$ . *Sm.* 113° (*R. 20*, 135).  
 $C_2H_5N$  \*1) Aethylenimin (Dimethylenimin, Vinylamin) (*B. 34*, 3544).  
 $C_2H_5Br$  \*1) Bromäthan. *Sd.* 38° (*Bl.* [3] 25, 293).  
 $C_2H_5O$  \*1) Aethylalkohol. *Zn*,  $S + Al_2Cl_3$  (*Bl.* [3] 25, 553; *C. 1901* [2] 1200).  
 $C_2H_4O_2$  \*1)  $\alpha\beta$ -Dioxyäthan (*Bl.* [3] 25, 643).  
 2) Aethansuperoxyd (Aethylhydroperoxyd). *Sd.* 95°?  $Ba + 2H_2O$  (*B. 34*, 739, 757).  
 $C_2H_5S$  \*1) Merkaptoäthan (*C. 1901* [1] 367).  
 \*2) Dimethylsulfid.  $2 + 3HgCl_2$ ,  $2 + PdCl_2$  (*C. 1901* [2] 183).  
 $C_2H_5N$  \*1) Aethylamin.  $2HCl + MoOCl_3$  (*B. 34*, 1574; *C. 1902* [1] 3; *C. r.* 135, 227 *C. 1902* [2] 636).  
 \*2) Dimethylamin.  $2HCl + MoOCl_3$  (*B. 34*, 1574).  
 $C_2H_5N_3$  \*1) Methylguanidin (*C. 1902* [1] 535).  
 $C_2H_5N_2$  \*1)  $\alpha\beta$ -Diamidoäthan. Carbonat (*C. 1901* [2] 519).  
 $C_2OCl_4$  \*2) Chlorid d. Trichloressigsäure (*C. 1902* [1] 1197).  
 $C_2O_2N_6$  1) Azid d. Oxalsäure. *Sm.* 96—97° (*J. pr.* [2] 58, 232). — \*I, 837.  
 $C_2Br_6S_3$  \*1) Hexabromdimethyltrisulfid (*C. 1901* [1] 1194).

## — 2 III —

- $C_2HOCl_3$  \*5) Chloralhydrat (*Ph. Ch. 37*, 426; *Ar. 240*, 113 *C. 1902* [1] 946; *J. pr.* [2] 65, 481 *C. 1902* [2] 258; *DRP.* 133021 *C. 1902* [2] 553).  
 $C_2HO_3Cl_3$  \*1) Trichloressigsäure (*B. 35*, 1534 *C. 1902* [1] 1202).  
 $C_2HO_3Br_3$  \*1) Tribromessigsäure. *Sm.* 129—131° (*B. 35*, 1536 *C. 1902* [1] 1202).  
 $C_2H_2OCl_2$  \*4) Chlorid d. Chloressigsäure.  $2 + Al_2Br_6$  (*Am. 27*, 255 *C. 1902* [1] 1292).  
 $C_2H_2O_2N_2$  \*3) Diazoessigsäure. *K* (*B. 34*, 2521).  
 \*5) polym. Nitril d. Nitroessigsäure. *Sm.* 216° (*G. 32* [1] 210 *C. 1902* [1] 1199).  
 $C_2H_4O_2Br_2$  \*1) Dibromessigsäure. Anilinsalz (*B. 35*, 1819 *C. 1902* [2] 25).  
 $C_2H_4O_2F_2$  1) Difluoressigsäure. *Ba* (*C. 1901* [2] 805).  
 $C_2H_5ClBr$  \*1)  $\alpha$ -Chlor- $\alpha$ -Bromäthen. *Sd.* 61—62°<sub>773</sub> (*B. 35*, 3527 *C. 1902* [2] 1301).  
 $C_2H_5BrF$  2)  $\alpha$ -Brom- $\alpha$ -Fluoräthen. *Sd.* 30—35° (*C. 1901* [2] 805).  
 $C_2H_5Br_2F_2$  \*2)  $\alpha\beta$ -Dibrom- $\alpha\alpha$ -Difluoräthan. *Sm.* 56,5°; *Sd.* 93° (*C. 1901* [2] 804).  
 $C_2H_5ON$  \*4) Nitril d. Oxyessigsäure. *Sd.* 103°<sub>16</sub> (*J. pr.* [2] 65, 189 *C. 1902* [1] 982).  
 $C_2H_5ON_3$  \*2) 3-Oxy-1,2,4-Triazol. *Sm.* 234° (*C. 1901* [1] 937).  
 4) Amid d. Isodiazoessigsäure (*Soc. 81*, 604 *C. 1902* [1] 747).  
 $C_2H_5ON_5$  C 212 — H 2,7 — O 14,2 — N 61,9 — M. G. 113.  
 1) Harnstoffazocyanid. *Zers.* oberh. 250° (*A. 314*, 355).  
 $C_2H_5OCl$  \*5) Chlorid d. Essigsäure. +  $AlCl_3$  (*R. 20*, 104).  
 $C_2H_5OBr$  \*3) Bromid d. Essigsäure. *Sd.* 76°<sub>750</sub> (*B. 34*, 3206).  
 $C_2H_4O_2Cl$  \*1) Chloressigsäure (*G. 31* [2] 321 *C. 1902* [1] 25).  
 $C_2H_4O_2Br$  \*1) Bromessigsäure. *Sm.* 49,4° (*G. 31* [2] 321 *C. 1902* [1] 25; *A. 319*, 371 *C. 1902* [1] 407).  
 $C_2H_5O_2J$  \*1) Jodessigsäure (*C. 1901* [1] 665).  
 $C_2H_5ClBr_2$  \*2)  $\alpha$ -Chlor- $\alpha\beta$ -Dibromäthan. *Sd.* 162,5—163° (*B. 35*, 3526 *C. 1902* [2] 1301).  
 $C_2H_5BrF_2$  1)  $\beta$ -Brom- $\alpha\alpha$ -Difluoräthan. *Sm.* —74,5°; *Sd.* 57,3° (*C. 1901* [2] 804).  
 $C_2H_5Br_2F$  1)  $\alpha\beta$ -Dibrom- $\alpha$ -Fluoräthan. *Sm.* —54°; *Sd.* 121,5° (*Soc. 79*, 804).

- $C_2H_3JF_2$  1)  $\beta$ -Jod- $\alpha$ -Difluoräthan. Sd. 89,5° (C. 1901 [2] 805).  
 $C_2H_3ON_4$  2) 3-Imido-5-Ketotetrahydro-1,2,4-Triazol (imidourazol). Sm. 285° (G. 31 [1] 486).  
 $C_2H_3OCl_2$  \*2) s-Dichlordimethyläther (C. r. 134, 1066 C. 1902 [1] 1319).  
 $C_2H_3O_2N_4$  \*1) 3,6-Diketohexahydro-1,2,4,5-Tetrazin (p-Urazin) (G. 31 [2] 550 C. 1902 [1] 480).  
 $C_2H_3O_3N_2$  \*1) Aethylnitrolsäure (B. 35, 216 C. 1902 [1] 393).  
\*6) Allophansäure.  $Na_2$  (B. 35, 779 C. 1902 [1] 714).  
\*9) Amidooximidoessigsäure (A. 321, 359 C. 1902 [1] 1276).  
\*11) Hydroxyloxamid. Sm. 158—159°;  $NH_4$ , Hg, (Soc. 79, 842; A. 321, 357 C. 1902 [1] 1275; G. 32 [1] 209 C. 1902 [1] 1199).  
 $C_2H_3O_4N_2$  \*4) Oxalldihydroxamsäure. FeOH (A. 323, 24 C. 1902 [2] 783).  
 $C_2H_3O_7S_2$  2) Aldehyd d. Methancarbonsäuredisulfonsäure (C. r. 133, 877 C. 1902 [1] 100).  
 $C_2H_4N_4S$  3) Methyläther d. 5-Merkapto-1,2,3,4-Tetrazol. Sm. 151° u. Zers. Cu, Ag (B. 34, 3115).  
 $C_2H_4N_4S_2$  1) 3,6-Dithiocarbonylhexahydro-1,2,4,5-Tetrazin (Dithio-p-Urazin). Sm. 198—199°. HCl, Ag (G. 31 [2] 563 C. 1902 [1] 481).  
 $C_2H_5ON$  \*4) Amid d. Essigsäure. + NaBr, + NaJ, K +  $xNH_3$ , K<sub>2</sub>, Na +  $xNH_3$ , Mg + 4  $NH_3$  (C. 1902 [2] 792; Soc. 79, 413; Am. 28, 91 C. 1902 [2] 787).  
 $C_2H_5OCl$  \*3) Chlordinimethyläther. Sd. 50—60° (59°) (A. 316, 167; D.R.P. 135310 C. 1902 [2] 1165).  
 $C_2H_5OBr$  \*1)  $\beta$ -Brom- $\alpha$ -Oxyäthan. Sd. 149—150°<sub>750</sub> (C. 1901 [1] 1356).  
 $C_2H_5OJ$  \*1)  $\beta$ -Jod- $\alpha$ -Oxyäthan. Sd. 78°<sub>16</sub> (B. 34, 1389; C. 1901 [1] 1357).  
 $C_2H_5O_2N$  \*1) Nitroäthan (B. 34, 2030; C. 1902 [1] 3).  
\*2) Isonitroäthan (B. 35, 49 C. 1902 [1] 401).  
\*3)  $\alpha$ -Oximido- $\alpha$ -Oxyäthan +  $\frac{1}{2}H_2O$ . Sm. 58—59°. Cu (B. 34, 2030; G. 31 [2] 38, 92; B. 35, 49 C. 1902 [1] 401; A. 323, 23 C. 1902 [2] 783).  
\*6) Amidoessigsäure (A. 319, 60; H. 35, 229 C. 1902 [2] 284; B. 35, 2438 C. 1902 [2] 440).  
\*8) Amid d. Oxyessigsäure. Sm. 115° (B. 34, 873).  
 $C_2H_5O_3N$  \*2) Nitrat d. Oxyäthan. Sd. 87,2—87,3°<sub>748</sub> (C. 1901 [1] 365, 366; 1902 [1] 4).  
 $C_2H_5O_3P$  2) Aethylenester d. Phosphorigen Säure. Ba (Bl. [3] 27, 269 C. 1902 [1] 1049).  
 $C_2H_5NS$  \*1) Amid d. Thioessigsäure. HCl (J. pr. [2] 66, 44 C. 1902 [2] 569).  
 $C_2H_5NS_2$  1) Methyl ester d. Amidodithioameisensäure. Sm. 42° (B. 35, 3380 C. 1902 [2] 1363).  
 $C_2H_5BrMg$  1) Magnesiumäthylbromid. Zers. 200—300° (C. 1901 [2] 622).  
 $C_2H_6ON_2$  \*1) Methylharnstoff (C. 1902 [1] 20; B. 35, 209 C. 1902 [1] 433).  
\*6) Hydrazid d. Essigsäure (B. 35, 3240 C. 1902 [2] 1045).  
\*7) Methylschoarnstoff. Sm. 44—45°; Sd. 82°<sub>9</sub>. HCl (Am. 26, 244).  
 $C_2H_6ON_3$  \*1) Guanylharnstoff. Salze siehe (Am. 25, 173).  
 $C_2H_6O_2N_2$  8)  $\beta$ -Oxy- $\alpha$ -Methylharnstoff. Sm. 127° u. Zers. (G. 31 [2] 343 C. 1902 [1] 32).  
 $C_2H_6O_2N_4$  \*2) Amid d. Hydrazodicarbonsäure. Sm. 242° (Bl. [3] 25, 307).  
 $C_2H_6O_3N_2$  C 22,6 — H 5,6 — O 45,3 — N 26,4 — M. G. 106.  
1)  $\beta$ -Nitramido- $\alpha$ -Oxyäthan. Fl. Hg, Ag (R. 21, 51 C. 1902 [1] 975).  
 $C_2H_6O_3S$  \*4) Monoäthylester d. Schwefligensäure.  $NH_4$  (C. 1902 [2] 931).  
 $C_2H_6O_4S$  \*1)  $\alpha$ -Oxyäthan- $\beta$ -Sulfonsäure. Ba (B. 35, 3163 C. 1902 [2] 1175).  
\*2) Dimethylester d. Schwefelsäure (C. 1901 [2] 269; DRP. 133542 C. 1902 [2] 314).  
\*3) Äthylschwefelsäure. K + HF, Rb + HF (A. 315, 361).  
 $C_2H_6O_5S_2$  \*1) Äthan- $\alpha$ -Disulfonsäure. Ba (C. r. 133, 877 C. 1902 [1] 100).  
 $C_2H_7ON_3$  \*1)  $\alpha$ -Amido- $\alpha$ -Methylharnstoff (Soc. 79, 661).  
 $C_2H_7O_2As$  \*1) Kakodylsäure (C. 1901 [1] 1109; 1901 [2] 1212; 1902 [1] 628, 744).  
 $C_2H_7O_4P$  \*4)  $\beta$ -Oxyäthylphosphorige Säure. Ba (Bl. [3] 27, 263 C. 1902 [1] 100).  
 $C_2H_7N_3S$  2) Methyläther d.  $\alpha$ -Amido- $\alpha$ -Hydrazon- $\alpha$ -Merkaptomethan. HJ (B. 34, 3114).  
 $C_2H_7O_2N_2$  2) Base (aus Glyoxim).  $H_2SO_4$  (B. 35, 1516; C. 1902 [1] 1207).  
 $C_2O_4N_2Cl_4$  \*1)  $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Dinitroäthan. Sm. 143—144° u. Zers. (B. 35, 1529 C. 1902 [1] 1201).  
 $C_2O_4N_2Br_4$  1)  $\alpha\alpha\beta\beta$ -Tetrabrom- $\alpha\beta$ -Dinitroäthan. Sm. 154—156° u. Zers. (B. 35, 1531 C. 1902 [1] 1201).



- $C_2H_3O_2JHg_3$  1) Verbindung (aus essigsäurem Natrium u.  $HgJ_2$ ). Na (*B.* 32, 878). — \*I, 855.
- $C_2H_3ONCl_3$  \*2) Amid d. Trichloressigsäure. Sm. 135°; Sd. 240° (*C. r.* 133, 738).
- $C_2H_3ONBr_3$  \*1) Amid d. Tribromessigsäure. Sm. 118—120° (*B.* 35, 1536 *C.* 1902 [1] 1202).
- $C_2H_3O_2Cl_2Hg$  1) Verbindung (aus chloressigsäurem Kalium und Quecksilberoxyd). K + KCl (*B.* 32, 871, 880). — \*I, 855.
- $C_2H_3ONCl_2$  2)  $\alpha\alpha$ -Dichlor- $\alpha$ -Nitrosoäthan. Sd. 68°<sub>763</sub> (*B.* 35, 3115 *C.* 1902 [2] 1187).
- $C_2H_3OCl_2P$  1) Phosphid d. Dichloressigsäure. Zers. bei 200° (*Am.* 27, 145 *C.* 1902 [1] 709).
- $C_2H_3O_2BrHg$  2) Verbindung (aus Quecksilber- $\beta$ -Oxyäthylbromid und Essigsäureanhydrid). Sm. 117—118° (*B.* 34, 1390).
- $C_2H_3O_2ClS$  \*1) Chlormethancarbonsäuresulfonsäure (*Bl.* [3] 27, 438 *C.* 1902 [2] 23).
- 2) d-Chlormethancarbonsäuresulfonsäure (*Bl.* [3] 27, 440 *C.* 1902 [2] 23).
- 3) l-Chlormethancarbonsäuresulfonsäure (*Bl.* [3] 27, 440 *C.* 1902 [2] 23).
- $C_2H_4ONCl$  \*1)  $\alpha$ -Chlor- $\alpha$ -Oximidoäthan (*B.* 35, 3114 *C.* 1902 [2] 1187).
- \*3) Chloramid d. Essigsäure (*B.* 35, 252).
- 5)  $\alpha$ -Chlor- $\alpha$ -Nitrosoäthan. Sm. 65° (*B.* 35, 3113 *C.* 1902 [2] 1186).
- $C_2H_4ONBr$  \*2) Bromamid d. Essigsäure +  $H_2O$  (*A.* 318, 373; *B.* 35, 249).
- $C_2H_4O_2N_4S$  1) 5-Methylsulfon-1,2,3,4-Tetrazol. Sm. 110—120°. K, Ag (*B.* 34, 3116).
- $C_2H_4O_4Cl_2S_2$  \*1) Chlorid d. Aethan- $\alpha\beta$ -Disulfonsäure. Sm. 91° (*B.* 34, 3473).
- $C_2H_3OJHg$  1) Quecksilber- $\beta$ -Oxyäthyljodid (*B.* 34, 1388).
- $C_2H_4O_2NS$  \*2) Amid d. Aethansulfonsäure. Sm. 58° (*R.* 21, 77 *C.* 1902 [1] 854).
- $C_2H_4O_2NS$  \*3) Taurin (*A.* 319, 64).
- $C_2H_3N_4Cl_2S_2$  \*1) Thioharnstoffchlorid. Zers. bei 80° (*Am.* 25, 193).
- $C_2H_3N_4J_2S_2$  \*1) Thioharnstoffjodid (*C.* 1902 [2] 1100).
- $C_2ON_2S_2P$  1) polym. Thionylthiocyanat =  $(C_2ON_2S_2P)_x$  (*Soc.* 79, 551).

C<sub>3</sub>-Gruppe.

- $C_3H_6$  \*1) Propen (*Soc.* 79, 917; *C. r.* 134, 1127 *C.* 1902 [2] 17).

- $C_3H_2O_4$  C 35,3 — H 1,9 — O 62,8 — M. G. 102.
- 1) Monaldehyd d. Ketomethandicarbonsäure (Mesoxalsäuresemialdehyd) (*Soc.* 81, 426 *C.* 1902 [1] 857, 978).
- $C_3H_3N_3$  \*1) Nitril d. Amidomethandicarbonsäure. Sm. 184,5° (*B.* 35, 1083 *C.* 1902 [1] 915).
- $C_3H_3J_3$  \*1)  $\alpha\alpha\beta$ -Trijodpropen (*B.* 34, 2118).
- $C_3H_4O_2$  \*1) Akrylsäure. Trimethylaminsalz (*B.* 35, 611 *C.* 1902 [1] 573).
- $C_3H_4O_3$  \*3) Brenztraubensäure. +  $NaHSO_3$  +  $H_2O$  (*R.* 20, 87, 365; *C.* 1902 [2] 787).
- 10) Lakton d. Oxyessigoxymethyläthersäure (Formalglykolsäure). Fl. (*R.* 20, 340).
- $C_3H_4O_4$  \*1) Malonsäure. +  $SbCl_3$  (*B.* 35, 1120 *C.* 1902 [1] 924).
- $C_3H_4O_6$  \*1) Mesoxalsäure (*B.* 35, 1819 *C.* 1902 [2] 25; *B.* 35, 3600 *C.* 1902 [2] 1411).
- $C_3H_4N_2$  \*3) Nitril d. Methylenamidoessigsäure (oder  $C_6H_3N_4$ ). Sm. 129° (*J. pr.* [2] 65, 192 *C.* 1902 [1] 982).
- 4) isom. Nitril d. Methylenamidoessigsäure. Sm. 82—83° (*J. pr.* [2] 65, 193 *C.* 1902 [1] 982).
- $C_3H_5N_3$  3) 4-Amidopyrazol.  $2HNO_3$  +  $\frac{1}{2}H_2O$  (*A.* 323, 282 *C.* 1902 [2] 1101).
- 4) 1-Methyl-1,2,4-Triazol? Sm. 20°; Sd. 183° (*G.* 32 [1] 201 *C.* 1902 [1] 668).

- $C_3H_8O$  \*2) Allylalkohol (*C. r.* 133, 822 *C. 1902* [1] 21).  
 \*7) Aceton. + Ferrocyanwasserstoff, ( $3HgO$ ,  $2HgSO_4$ ) (*C. 1902* [1] 531; *B.* 35, 1206 *C. 1902* [1] 997; *B.* 35, 2584 *C. 1902* [2] 571).  
 $C_3H_8O_2$  \*8) Aldehyd d. Propionsäure (*J. pr.* [2] 65, 199 *C. 1902* [1] 976).  
 \*2)  $\alpha$ -Oxy- $\beta$ -Ketopropan (Acetol) (*C. r.* 133, 232; *C. 1902* [2] 928; *G.* 31 [2] 496 *C. 1902* [1] 178).  
 \*4) Propionsäure. Ca (*Soc.* 81, 356 *C. 1902* [1] 981; *B.* 35, 2521 *C. 1902* [2] 435).  
 $C_3H_8O_3$  \*1) Glycerose (Dioxyacetone) (*B.* 34, 1532).  
 \*4) i- $\alpha$ -Oxypropionsäure. Antimonpentachlorid-Verbindung (*C. 1902* [2] 341; *B.* 35, 669 *C. 1902* [1] 710; *B.* 35, 1123 *C. 1902* [1] 924).  
 13) Monoformiat d.  $\alpha\beta$ -Dioxyäthan. *Sd.* 180° (*C. 1902* [2] 929).  
 $C_3H_8Br_2$  \*2)  $\alpha\beta$ -Dibromopropan (*B.* 34, 4217 *C. 1902* [1] 175).  
 $C_3H_8S_3$  \*1) Trithioformaldehyd (*B.* 35, 3251 *C. 1902* [2] 1174).  
 $C_3H_7N$  \*5) Amido-R-Trimethylen. *Sd.* 49°.  $HCl$ , ( $2HCl$ ,  $PtCl_4$ ) (*C. 1901* [2] 580).  
 6) N-Methyläthylenimin. *Sd.* 27,5°<sub>764</sub>. ( $HCl$ ,  $AuCl_3$ ), Pikrat (*B.* 34, 3552).  
 $C_3H_8O$  \*2)  $\beta$ -Oxypropan (*C. 1901* [2] 622).  
 $C_3H_8O_2$  \*3) Dimethyläther d. Dioxymethan (*Bl.* [3] 23, 364).  
 4) Monomethyläther d.  $\alpha\beta$ -Dioxyäthan. *Sd.* 124—125°<sub>768</sub> (*B.* 35, 3300 *C. 1902* [2] 1245).  
 $C_3H_7N$  \*2) Isopropylamin (*C. 1902* [1] 3).  
 \*4) Trimethylamin.  $2HCl$  +  $MoOCl_3$  (*B.* 34, 1574; *C. 1902* [1] 3).  
 $C_3H_7N_3$  \*2) s-Dimethylguanidin.  $2HCl$  (*B.* 35, 3599 *C. 1902* [2] 1356).  
 $C_3O_4Hg_2$  1) Dimerkurimalonsäure +  $3H_2O$ . (*B.* 35, 2582 *C. 1902* [2] 571).

## — 3 III —

- $C_3HO_2Cl_5$  2)  $\alpha\beta\beta$ -Tetrachloräthylester d. Ameisensäure. *Sd.* 79—80°<sub>14</sub> (*C. 1901* [2] 69).  
 $C_3HN_3S_3$  \*1) Pseudoschwefelcyan (*J. pr.* [2] 63, 465; [2] 64, 171).  
 $C_3H_4O_3N_3$  \*1) Parabonsäure (*B.* 34, 3287; *A.* 323, 202 *C. 1902* [2] 891).  
 $C_3H_2O_4Cl_2$  \*1) Dichlormalonsäure. Anilinsalz (*B.* 35, 1815 *C. 1902* [2] 24).  
 $C_3H_2O_4Br_2$  \*1) Dibrommalonsäure. *Sm.* 130—131° (147° u. Zers.) ( $NH_4$ ),  $K_2$ , Anilinsalz (*B.* 35, 1374 *C. 1902* [1] 1089; *B.* 35, 1817 *C. 1902* [2] 25).  
 $C_3H_2O_4J_2$  1) Dijodmethandicarbonsäure (Dijodmalonsäure). *Sm.* 119—120° u. Zers. (*B.* 35, 1377 *C. 1902* [1] 1089).  
 $C_3H_2O_2N_3$  \*8) 1,2,3-Triazol-5-Carbonsäure. *Sm.* 219—220°.  $K$  +  $2H_2O$  (*B.* 35, 1044 *C. 1902* [1] 822).  
 $C_3H_3O_2Br$  4) Aldehyd d. Brommalonsäure. *Sm.* 140° u. Zers.  $K$  (*C. r.* 133, 538; *C. 1897* [2] 182). — \*I, 188.  
 $C_3H_3O_3N_3$  \*2) Isocyanursäure.  $Na_3$  +  $2H_2O$ ,  $Hg_3$  +  $2H_2O$  (*Soc.* 81, 191 *C. 1902* [1] 525, 804; *Soc.* 81, 291 *C. 1902* [1] 291; *B.* 35, 2717 *C. 1902* [2] 696).  
 $C_3H_3O_4Cl$  \*1) Chlormalonsäure.  $Pb$ , Anilinsalz (*B.* 35, 1814 *C. 1902* [2] 24).  
 $C_3H_3O_4Br$  \*1) Brommalonsäure. *Sm.* 113° (112° u. Zers.) (*B.* 35, 1816 *C. 1902* [2] 24; *B.* 35, 2552 *C. 1902* [2] 572).  
 $C_3H_3O_4N_3$  1) Oxyfulminursäure.  $K_2$  (*G.* 31 [2] 343 *C. 1902* [1] 32).  
 $C_3H_3ON_2$  9) Verbindung (aus Cyanessigester). Zers. bei 300° (*C. 1897* [1] 904). — \*I, 677.  
 $C_3H_4OCl_2$  \*10) Chlorid d.  $\beta$ -Chlorpropionsäure. *Sd.* 82—82,5°<sub>102</sub> (*B.* 34, 4048 *C. 1902* [1] 177).  
 $C_3H_4O_2N_2$  \*2) Hydrantoin. *Sm.* 218—220° (215°) (*B.* 34, 3288; *M.* 23, 811 *C. 1902* [2] 1417).  
 $C_3H_4O_2Br_2$  5) Methylester d. Dibromessigsäure. *Sd.* 181,5—183,5° (*B.* 35, 1381 *C. 1902* [1] 1090).  
 $C_3H_4O_2J_2$  1) Methylester d. Dijodessigsäure. *Fl.* (*B.* 35, 1381 *C. 1902* [1] 1090).  
 $C_3H_4O_3N_4$  2) Säure (aus Cyanisonitrosoacethydroxamsäure).  $NH_4$  (*J. pr.* [2] 30, 59; *A.* 280, 324). — \*I, 702.  
 $C_3H_4O_3Hg$  1) Oxymerkuriakrylsäure (*J. pr.* [2] 61, 223; *B.* 35, 2572 *C. 1902* [2] 569).  
 $C_3H_4O_4N_2$  \*2)  $\alpha\beta$ -Dioximidopropionsäure. *Sm.* 178—180° (*Soc.* 81, 432 *C. 1902* [1] 857).

- $C_3H_4O_4N_2$  5) 3-Nitro-2-Ketotetrahydrooxazol. Sm. 111° (*R.* 21, 50 *C.* 1902 [1] 975).
- $C_3H_5ON$  \*1) Glykoeyamidin. Sm. oberh. 300° (2HCl, PtCl<sub>4</sub>) (*C.* 1902 [2] 296).
- 5) Azid d. Propionsäure. Fl. (*J. pr.* [2] 64, 408 *C.* 1902 [1] 22).
- $C_3H_5OCl$  \*7) Chloraceton (*C. r.* 133, 878 *C.* 1902 [1] 101).
- \*11) Chlorid d. Propionsäure. + SbCl<sub>5</sub> (*B.* 35, 1117 *C.* 1902 [1] 923).
- $C_3H_5OBr$  \*4) Bromaceton (*C. r.* 133, 879 *C.* 1902 [1] 101).
- $C_3H_5O_2N$  \*2)  $\alpha$ -Oximido- $\beta$ -Ketopropan (Isonitrosoaceton) (*B.* 35, 218 *C.* 1902 [1] 393).
- \*4) 2-Ketotetrahydrooxazol. Sm. 91° (*R.* 21, 47 *C.* 1902 [1] 975).
- $C_3H_5O_2Cl$  \*1)  $\alpha$ -Chlorpropionsäure. Sd. 83,5–84,5°<sub>12</sub> (*B.* 34, 4049 *C.* 1902 [1] 177; *A.* 319, 371 *C.* 1902 [1] 407).
- \*2)  $\beta$ -Chlorpropionsäure. Sm. 41° (*B.* 34, 4048 *C.* 1902 [1] 177; *A.* 319, 369, 372 *C.* 1902 [1] 407).
- \*4) Chlormethylester d. Essigsäure. +  $\frac{1}{2}$ HCl (*C. r.* 133, 97; *C.* 1901 [2] 269; *C. r.* 134, 1066 *C.* 1902 [1] 1319).
- $C_3H_5O_2Br$  \*1)  $\alpha$ -Brompropionsäure (*B.* 34, 4044 *C.* 1902 [1] 177; *A.* 319, 373 *C.* 1902 [1] 407).
- $C_3H_5O_3N$  \*1)  $\alpha$ -Nitro- $\beta$ -Ketopropan (Nitroaceton). Sm. 49–50°. Na, Ag (*A.* 319, 251 *C.* 1902 [1] 189; *B.* 35, 1005 *C.* 1902 [1] 868).
- $C_3H_5O_4N$  \*2) Amidomalonsäure + H<sub>2</sub>O. Sm. 108–109° u. Zers. (NH<sub>4</sub>), Ag (*B.* 35, 2550 *C.* 1902 [2] 572).
- $C_3H_5O_4N_3$  \*2) Amid d. Nitromethandicarbonsäure (*G.* 32 [1] 208 *C.* 1902 [1] 1199).
- $C_3H_5NS_2$  \*2) Imidomethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan. HCl (*C.* 1902 [1] 1401).
- $C_3H_5NSe$  \*1) Aethylselencyanid. Sd. 172°<sub>741</sub> (*C.* 1901 [2] 276).
- $C_3H_5ClS_2$  \*1) Aethylester d. Chlordithioameisensäure. Sd. 90–110°<sub>10</sub> (*B.* 35, 3377 *C.* 1902 [2] 1363).
- $C_3H_5OF_2$  \*1) Methyläther d.  $\beta\beta$ -Difluor- $\alpha$ -Oxyäthan. Sd. 47° (*C.* 1901 [2] 805).
- $C_3H_5OS_2$  \*1) Aethylxanthogensäure. Cu (*B.* 35, 2184 *C.* 1902 [2] 264).
- $C_3H_5O_3N_2$  \*2)  $\beta$ -Nitroso- $\beta$ -Nitropropan. Sm. 76° u. Zers. (*B.* 34, 1911; *B.* 35, 3095 *C.* 1902 [2] 1183).
- \*5)  $\beta$ -Amido- $\beta$ -Oxidopropionsäure. Cu (*A.* 321, 362 *C.* 1902 [1] 1276).
- \*6) Hydantoinsäure. Sm. 168° (*M.* 23, 810 *C.* 1902 [2] 1417).
- \*9) Aethylester d. Nitrosamidoameisensäure (*B.* 35, 1148 *C.* 1902 [1] 989).
- 12)  $\alpha$ -Nitroso- $\beta$ -Nitropropan (oder  $\beta$ -Nitroso- $\alpha$ -Nitropropan; Propylen-nitrosit). Sm. 119–120° (*C.* 1901 [2] 333).
- $C_3H_5O_4N_3$  \*1)  $\alpha\alpha$ -Dinitropropan (*J. pr.* [2] 65, 199 *C.* 1902 [1] 976).
- \*5) Malondihydroxamsäure. Sm. 144–145° (*A.* 321, 363 *C.* 1902 [1] 1276).
- \*10) Aethylester d. Nitramidoameisensäure (*B.* 35, 1005 *C.* 1902 [1] 868).
- $C_3H_5O_4S_2$  1) Aldehyd d. Aethan- $\alpha$ -Carbonsäure- $\alpha\alpha$ -Disulfonsäure (*C. r.* 133, 877 *C.* 1902 [1] 100).
- $C_3H_5O_{10}S_3$  1)  $\beta$ -Ketopropan- $\alpha\alpha\gamma$ -Trisulfonsäure. Ba<sub>3</sub>+2H<sub>2</sub>O, Pb<sub>3</sub>+H<sub>2</sub>O, Cu<sub>3</sub>, Ag<sub>3</sub> (*C. r.* 133, 877 *C.* 1902 [1] 101; *Bl.* [3] 27, 14 *C.* 1902 [1] 405).
- $C_3H_5NBr$  \*1)  $\beta$ -Brom- $\gamma$ -Amidopropen (*B.* 34, 3543).
- $C_3H_5N_2S_1$  1) Methylenester d. Amidodithioameisensäure. Sm. 166° (*C.* 1902 [1] 1400).
- $C_3H_5Cl_3Si$  1)  $\alpha\gamma$ -Trimethylensiliciumdichlorid. Fl. (*J.* 1889, 1943). — \*I, 853.
- $C_3H_5ON$  \*2)  $\alpha$ -Amido- $\beta$ -Ketopropan. HCl (*B.* 35, 3805 *C.* 1902 [2] 1407).
- \*5)  $\beta$ -Oximidopropen (*G.* 32 [1] 425 *C.* 1902 [2] 259).
- 11) Methyläther d. Oximidoäthan. Sd. 47,5° (*Soc.* 79, 635).
- 12) N-Methylisocetaldoxim. 2 + NaJ (*Soc.* 79, 635).
- 13) Aldehyd d.  $\beta$ -Amidopropionsäure. (2HCl, PtCl<sub>4</sub>), Oxalat + H<sub>2</sub>O (*B.* 34, 1917).
- $C_3H_5OCl$  \*1)  $\beta$ -Chlor- $\alpha$ -Oxypropan (*C. r.* 134, 1070 *C.* 1902 [1] 1316).
- \*3)  $\alpha$ -Chlor- $\beta$ -Oxypropan (*C.* 1901 [1] 996; 1902 [2] 19; *C. r.* 134, 1070 *C.* 1902 [1] 1316).
- \*6) Chlormethyläther d. Oxyäthan. Sd. 70–80° (D.R.P. 135310 *C.* 1902 [2] 1165).
- $C_3H_5O_2N$  \*4)  $\alpha$ -Oximido- $\alpha$ -Oxypropan. Sm. 85° (*B.* 34, 2032).

- $C_3H_7O_2N$  \*9) Nitrit d.  $\beta$ -Oxypropan (Isopropylnitrit) (*C. 1902* [1] 4).  
 10)  $\alpha$ -Amidopropionsäure. Sm. 295° u. Zers. (*A. 319*, 61; *H. 36*, 271 *C. 1902* [2] 1134; *C. 1902* [1] 752; *B. 35*, 3793 *C. 1902* [2] 1414).
- $C_3H_7O_2N_2$  \*11)  $\beta$ -Amidopropionsäure. Sm. 199–200° (*C. 1902* [1] 763).  
 $C_3H_7O_2N$  \*16) Aethylester d. Amidoameisensäure. Ag (*B. 35*, 1317 *C. 1902* [1] 1094).  
 \*19)  $\alpha$ -Amidopropionsäure. Sm. 293°. HCl (*H. 33*, 182; *H. 35*, 73 *C. 1902* [1] 1018; *H. 36*, 272 *C. 1902* [2] 1134; *H. 36*, 467 *C. 1902* [2] 1424).
- $C_3H_7O_2N_2$  \*3) Glykocamin. Zers. oberh. 220° (*C. 1902* [2] 296).  
 $C_3H_7O_2N$  \*5) Nitrat d.  $\alpha$ -Oxypropan (Propylnitrat) (*C. 1902* [1] 4).  
 \*7)  $\beta$ -Amido- $\alpha$ -Oxypropionsäure (Isoserin). Sm. 248° u. Zers.  $Cu + 3H_2O$  (*C. 1902* [1] 763; *B. 35*, 3794 *C. 1902* [2] 1415).  
 \*8)  $\alpha$ -Amido- $\beta$ -Oxypropionsäure (Serin). Sm. 246° u. Zers. (*C. 1902* [1] 762; *B. 35*, 3790 *C. 1902* [2] 1414; *H. 35*, 223 *C. 1902* [2] 287; *H. 36*, 473 *C. 1902* [2] 1425).
- $C_3H_7O_2N_2$  12) Amid d.  $1-\alpha\beta$ -Dioxypropionsäure. Sm. 99,5–100° (*Soc. 79*, 269).  
 13) Amid d.  $i-\alpha\beta$ -Dioxypropionsäure. Sm. 91,5–92° (*Soc. 79*, 269).  
 $C_3H_7O_2N_2$  5) Guanidyloxessigsäure +  $\frac{1}{2}H_2O$  (Guanidinglyoxylsäure). Sm. 210° u. Zers.  $NH_3$ , (HCl,  $PtCl_4 + H_2O$ ) (*A. 315*, 4).  
 $C_3H_7O_2N_2$  1) Thiosemicarbazonäthan. Sm. 146° (*B. 35*, 2603 *C. 1902* [2] 572).  
 $C_3H_7O_2P$  3)  $\beta$ -Oxypropylenester d. Phosphorigensäure (*Bl. 3*) 27, 266 *C. 1902* [1] 1049).
- $C_3H_7NS_2$  3) Dimethylamidodithioameisensäure. Dimethylaminsalz (*B. 35*, 820 *C. 1902* [1] 712).  
 4) Methylester d. Methylamidodithioameisensäure. Sd. 155–156°<sub>20</sub> (*B. 35*, 3381 *C. 1902* [2] 1363; *Bl. 3*) 27, 813 *C. 1902* [2] 695).
- $C_3H_7N_2S$  1) Thiosemicarbazonäthan. Sm. 146° (*B. 35*, 2603 *C. 1902* [2] 572).  
 $C_3H_7N_2Cl$  2) Verbindung (aus 1,4-Dihydro-1,2,4,5-Tetrazin). Sm. 130°. 2 +  $PtCl_4$  (*Soc. 81*, 263 *C. 1902* [1] 668, 817).
- $C_3H_7N_4J$  1) Verbindung (aus 1,4-Dihydro-1,2,4,5-Tetrazin-Jodmethylat). Sm. 98–99° (*Soc. 81*, 263 *C. 1902* [1] 668, 817).
- $C_3H_5ON_2$  \*3) s-Dimethylharnstoff (*C. 1902* [1] 20).  
 \*4) uns-Dimethylharnstoff (*C. 1902* [1] 20).  
 \*8) Amid d.  $\alpha$ -Amidopropionsäure. HBr (*A. 319*, 302 *C. 1902* [1] 361).  
 \*9) Aethylisoharnstoff. Sm. 42°; Sd. 89°<sub>10</sub>. HCl, (2HCl,  $PtCl_4$ ) (*Am. 26*, 255).  
 10) Amid d. Methylamidoessigsäure. HCl (*A. 319*, 301 *C. 1902* [1] 361).  
 11) Hydrazid d. Propionsäure. Sm. 40°; Sd. 130°<sub>16</sub>. HCl, Hydrazinsalz (*J. pr. 2*) 64, 404 *C. 1902* [1] 22; *B. 35*, 3240 *C. 1902* [2] 1045).
- $C_3H_5O_2N_2$  \*6)  $\alpha$ -Diamidopropionsäure.  $HNO_3$ ,  $H_2SO_4$  (*B. 34*, 1182).  
 10)  $\beta$ -Oxyäthylharnstoff. Sm. 95° (*R. 13*, 488). — \*I, 860.  
 11)  $\beta$ -Oxy- $\alpha$ -Aethylharnstoff. Sm. 129° u. Zers. (*G. 3*) 321 *C. 1902* [1] 32).  
 12)  $\beta$ -Oxy- $\alpha$ -Dimethylharnstoff (*A. 299*, 86). — \*I, 728.  
 13)  $\alpha$ -Amido- $\alpha$ -Oximido- $\beta$ -Oxypropan (Milchsäureamidoxim). Sm. 115–116° (*A. 321*, 368 *C. 1902* [1] 1276).
- $C_3H_8ON_4$  14) Hydrazid d.  $\alpha$ -Oxypropionsäure (*B. 35*, 3240 *C. 1902* [2] 1045).  
 $C 24,3 - H 5,4 - O 32,4 - N 37,8 - M. G. 148$ .
- $C_3H_7NCl$  1) Guanidylamidooxyessigsäure oder  $C_3H_5O_2N_4 + H_2O$  (Amidoguanidinyloxyessigsäure). Sm. 161° u. Zers. (*A. 302*, 280; 315, 7; 317, 157).  
 $C_3H_7NBr$  4)  $\beta$ -Chlor- $\alpha$ -Methylamidoäthan. HCl, (2HCl,  $PtCl_4$ ). Pikrat (*B. 34*, 3548).  
 $C_3H_7N_2S$  3)  $\beta$ -Brom- $\alpha$ -Methylamidoäthan. (2HCl,  $PtCl_4$ ). Pikrat (*B. 34*, 3547).  
 $C_3H_5ON$  7) Aethylpseudothioharnstoff. HCl (*Soc. 81*, 81 *C. 1902* [1] 113).  
 \*2)  $\beta$ -Methylamido- $\alpha$ -Oxyäthan. HCl, Pikrolonat (*A. 315*, 110; *B. 34*, 3549).
- 10)  $\alpha$ -Amido- $\beta$ -Oxypropan. Sd. 160–161°<sub>750</sub>. HCl, (2HCl,  $PtCl_4$ ), Pikrat (*C. 1901* [1] 819).
- $C_3H_5O_2P$  4)  $\alpha$ -Oxyisopropylmetaphosphorige Säure. Sm. 45°.  $Co + 4H_2O$ ,  $Ni + 4H_2O$ ,  $Cu + H_2O$ , Ag (*C. r. 133*, 221; *C. r. 134*, 286 *C. 1902* [1] 565).  
 $C_3H_5O_4P$  5)  $\alpha$ -Oxyisopropylphosphinsäure. Sm. 169–170° (175° u. Zers.). Salze siehe (*C. r. 133*, 221; *C. r. 134*, 287 *C. 1902* [1] 566; *C. r. 134*, 847 *C. 1902* [1] 1155; *C. r. 134*, 994 *C. 1902* [1] 1272; *C. r. 135*, 106 *C. 1902* [2] 504).
- $C_3H_5O_5P$  1) Glycerinphosphorige Säure. Ca, Ba (*C. r. 133*, 643; *Bl. 3*) 27, 261 *C. 1902* [1] 100).

- $C_3H_5N_4J_3$  1) Verbindung (aus 1,4-Dihydro-1.2.4.5-Tetrazin u. Jodmethyl). Sm. 102 bis 103° (*Soc.* 81, 262 *C.* 1902 [1] 668, 817).
- $C_3O_3N_3Cl_4$  1) Trichlorisocyanursäure (Trichlorimidocyanursäure). Sm. 245° (*Soc.* 81, 200 *C.* 1902 [1] 525, 804).

— 3 IV —

- $C_3H_5ON_3Cl_2$  1) Amid d. Dichloreyanessigsäure. — *I*, 701.
- $C_3H_5ON_2S$  1) 2-Thiocarbonyl-5-Keto-2,5-Dihydroimidazol. Sm. noch nicht bei 250° (*A.* 317, 151).
- $C_3H_5O_2NS$  \*1) 2,4-Diketotetrahydrothiazol. Sm. 125—126° (*Am.* 26, 351; *B.* 35, 1007 *C.* 1902 [1] 868).
- $C_3H_5O_2N_3S$  \*3) Isorhodanessigsäure (*J. pr.* [2] 66, 172 *C.* 1902 [2] 931).
- $C_3H_5ON_2S_2$  \*1) 2-Imido-5-Oximido-4-Ketotetrahydrothiazol (*B.* 35, 218 *C.* 1902 [1] 393).
- $C_3H_5O_2N_2Cl_3$  1) Verbindung (aus Rhodankalium) (*J. pr.* [2] 64, 459 *C.* 1902 [1] 114).
- $C_3H_5O_2N_2Cl_3$  \*1)  $\gamma\gamma\gamma$ -Trichlor- $\alpha$ -Amido- $\alpha$ -Oximido- $\beta$ -Oxypropan. Sm. 156—157°. Cu (*A.* 321, 369 *C.* 1902 [1] 1276).
- $C_3H_5O_2Cl_2P$  1) Verbindung (aus  $\alpha$ -Chlorhydrin). Fl. (*Bl.* [3] 27, 268 *C.* 1902 [1] 1049).
- $C_3H_5ONBr$  \*1)  $\beta$ -Brom- $\beta$ -Nitrosopropan (*B.* 35, 3095 *C.* 1902 [2] 1183).
- $C_3H_5O_2N_2S$  3) Methylester d. Thioharnstoffcarbonsäure. Sm. 166° (*Soc.* 79, 910).
- $C_3H_5O_4Cl_2S_2$  1) Chlorid d. Propan- $\alpha$ - $\beta$ -Dicarbonsäure. Sm. 48° (*B.* 34, 3477).
- $C_3H_5O_4Cl_2S_2$  2) Chlorid d. Propan- $\alpha\gamma$ -Disulfonsäure (*B.* 34, 3479).
- $C_3H_5OJHg$  \*1) Quecksilber- $\beta$ -Oxypropyljodid (*B.* 35, 3180 *C.* 1902 [2] 1203).
- $C_3H_5O_2NS$  \*1) Cystein (*II.* 32, 99; *B.* 35, 3161 *C.* 1902 [2] 1175; *C.* 1902 [2] 1360).
- $C_3H_7O_2ClS$  1) Chlorid d. Propan- $\alpha$ -Sulfonsäure. Sd. 180° u. Zers. (*R.* 21, 77 *C.* 1902 [1] 855).
- $C_3H_5O_2JHg$  \*1) Quecksilber- $\beta\gamma$ -Dioxypropyljodid (*B.* 34, 1392).
- $C_3H_5O_3NS$  1)  $\alpha$ -Amidoäthan- $\alpha$ -Carbonsäure- $\beta$ -Sulfonsäure +  $H_2O$ . Zers. bei 260° (wasserfrei). K +  $H_2O$ , Ba, Zn +  $H_2O$ , Cu (*C.* 1902 [2] 1360).
- $C_3H_5O_2Cl_2Si$  1) Methyläthyläther d. Dioxysiliciumdichlorid. Sd. 128° (*Soc.* 79, 458).
- $C_3H_5O_4ClP$  1) Säure (aus  $\alpha$ -Monochlorhydrin). Ba (*Bl.* [3] 27, 266 *C.* 1902 [1] 1049).
- $C_3H_5O_2NS$  4) Amid d. Propan- $\alpha$ -Sulfonsäure. Sm. 52° (*R.* 21, 78 *C.* 1902 [1] 855).
- $C_3H_5O_3N_3S_3$  1) 1,3,5-Trimethyl-R-Trisulfimid. Sm. 121° (*B.* 34, 3444).
- $C_3ON_3S_3P$  1) Phosphoryltrithiocyanat (*Soc.* 79, 549).

**C<sub>3</sub>-Gruppe.**

- $C_4H_2O$  C 72,7 — H 3,0 — O 24,3 — M. G. 66.
- 1) Verbindung (aus Essigsäureanhydrid) (*J.* 1861, 438; *G.* 31 [2] 479 *C.* 1902 [1] 179). — *I*, 462.
- $C_4H_2O_4$  3) Anhydrid d. Oxymaleinsäure. Pyridinsalz (*B.* 34, 1144).
- $C_4H_4O_2$  4) Lakton d.  $\alpha$ -Oxypropen- $\gamma$ -Carbonsäure? Fl. (*B.* 35, 942 *C.* 1902 [1] 858).
- $C_4H_4O_3$  5) Aldehyd d. Fumarsäure (*C. r.* 134, 906 *C.* 1902 [1] 1272).
- \*3) Tetronsäure (*A.* 315, 145).
- \*5) Anhydrid d. Bernsteinsäure (*Ph. Ch.* 41, 353 *C.* 1902 [2] 627).
- $C_4H_4O_4$  \*1) Fumarsäure (*B.* 34, 53; *M.* 22, 698).
- $C_4H_4O_5$  \*1) Oxaleessigsäure. Sm. 146°. 2  $NH_3$ , + 2 Molec. Harnstoff (*Soc.* 79, 91; *B.* 34, 1145; *Soc.* 81, 1158 *C.* 1902 [2] 190).
- $C_4H_4N_2$  \*4) Nitril d. Bernsteinsäure. (Aethyleneyanid) (*C.* 1901 [2] 807; 1902 [1] 4).
- \*5) 1,3-Diazin (Pyrimidin). Sm. 21°; Sd. 124°. Pikrat, +  $AuCl_3$  (*B.* 34, 4180 *C.* 1902 [1] 265).
- $C_4H_4S$  \*1) Thiophen (*C.* 1902 [2] 157).
- $C_4H_6O_2$  \*11) R-Trimethylenearbonsäure. Sd. 182° (*C.* 1901 [1] 1357; 1902 [1] 914).
- \*13) Methylester d. Akrylsäure (*B.* 34, 573).
- \*19) Propen- $\gamma$ -Carbonsäure (Vinyleessigsäure). Sd. 163°. Na, Ca +  $H_2O$ , Ba (*C.* 1899 [2] 28; *B.* 35, 938 *C.* 1902 [1] 857).



- $C_4H_6O$ , 20) Aldehyd d. Bernsteinsäure.  $\alpha$ -Modif. Sd.  $67^{\circ}_{10}$ ;  $\beta$ -Modif. glasig, Sd.  $169^{\circ}_{701}$ ;  $\gamma$ -Modif. Sm.  $64^{\circ}$ ;  $\delta$ -Modif. Sm.  $130$ — $140^{\circ}$ ;  $\epsilon$ -Modif. Zers. bei  $90$ — $100^{\circ}$ . +  $2NaHSO_3$  (B. 34, 1495; B. 35, 1183 C. 1902 [1] 1010).
- $C_4H_6O$ , 4)  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure. Sm.  $33^{\circ}$ ; Sd.  $128,6$ — $130,2^{\circ}_{12-13}$ .  $NH_3$ , Li, Ba, Ag (R. 21, 222 C. 1902 [2] 505).
- \*8)  $\alpha$ -Ketopropen- $\alpha$ -Carbonsäure. Sm.  $31,5$ — $32^{\circ}$ ; Sd.  $85^{\circ}_{21}$ . Ba +  $2\frac{1}{2}H_2O$ , Ag (R. 21, 232 C. 1902 [2] 506).
- 13) Anhydrid d. Essigsäure. (D.R.P. 127350 C. 1902 [1] 150).
- 16) Lakton d. Oxypropionoxymethyläthersäure (Formalmilchsäure). (R. 20, 340).
- 23) Säure (aus  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure) =  $(C_4H_6O)_n$ . Sm.  $108$ — $110^{\circ}$  (R. 21, 239 C. 1902 [2] 506).
- 24) Methylester d.  $\beta$ -Oxyakrylsäure. Na (A. 316, 39).
- 25) Formiat d.  $\alpha$ -Oxy- $\beta$ -Ketopropen. Sd.  $168$ — $170^{\circ}_{767}$  (C. 1902 [2] 928).
- $C_4H_6O_4$ , \*2) Bernsteinsäure. +  $2SbCl_5$  (B. 35, 1121 C. 1902 [1] 924).
- \*4) Acetylsuperoxyd (Am. 27, 161 C. 1902 [1] 932).
- \*5) Dimethylester d. Oxalsäure. Antimonpentachlorid-Verbindung (B. 35, 1119 C. 1902 [1] 924).
- 9) Lakton d. l-Erythrönsäure. Sm.  $104^{\circ}$  (B. 34, 1369).
- 10) Lakton d. d-l-Erythrönsäure. Sm.  $89$ — $90^{\circ}$  (B. 34, 1370).
- $C_4H_6O_5$ , \*4)  $\beta$ -Oxyäthan- $\alpha\alpha$ -Dicarbonsäure ( $\beta$ -Isoäpfelsäure). Ca, Pb (R. 20, 432 C. 1902 [1] 408).
- \*6) l-Äpfelsäure. Sr +  $4H_2O$  (C. 1902 [1] 1399).
- $C_4H_6O_6$ , 1) d-Weinsäure. Antimonpentachlorid-Derivat (B. 34, 1373 C. 1902 [2] 343; B. 35, 1127 C. 1902 [1] 925).
- \*9) Diacetonitril (Soc. 81, 100 C. 1902 [1] 426).
- 2) Guanazoguanazol. ( $2HCl$ ,  $PtCl_4$ ), +  $AgNO_3$  (G. 31 [1] 500).
- \*4) isom.  $\beta\beta\gamma\gamma$ -Tetrabrombutan. Sm.  $243^{\circ}$  (B. 34, 2119).
- \*5)  $\alpha\alpha\alpha\beta$ -Tetrabrom- $\beta$ -Methylpropan. Sm.  $217^{\circ}$  (B. 34, 2119).
- $C_4H_7N$ , \*2)  $\beta$ -Dihydropyrrol. Sd.  $90^{\circ}_{748}$ . ( $2HCl$ ,  $PtCl_4$ ), Pikrolonat (B. 34, 3497; B. 34, 3954 C. 1902 [1] 204).
- $C_4H_7N_5$ , 2) 2,4,6-Triamido-1,3-Diazin. Sm.  $245$ — $246^{\circ}$ .  $2HCl$ , ( $2HCl$ ,  $PtCl_4$  +  $H_2O$ ), Pikrat (B. 34, 3364).
- $C_4H_7Cl$ , \*3)  $\gamma$ -Chlor- $\beta$ -Methylpropen. Sd.  $70$ — $71^{\circ}$  (C. 1901 [1] 996).
- 6) l-Chlormethyl-R-Trimethylen. Sd.  $85$ — $86^{\circ}_{756}$  (C. 1902 [1] 913).
- $C_4H_7Br$ , \*4)  $\alpha$ -Brom- $\beta$ -Methylpropen. Sd.  $91$ — $93^{\circ}$  (B. 34, 2118).
- 8) l-Brommethyl-R-Trimethylen. Sd.  $109$ — $110^{\circ}_{750}$  (C. 1902 [1] 914).
- 9) l-Brom-l-Methyl-R-Trimethylen. Sd.  $99$ — $100^{\circ}$  (C. 1902 [1] 1277).
- $C_4H_7Br_3$ , 8)  $\alpha\gamma\gamma$ -Tribrombutan. Sd.  $174$ — $185^{\circ}$  (C. 1902 [1] 1277).
- $C_4H_7J$ , 3) l-Jodmethyl-R-Trimethylen. Sd.  $135^{\circ}_{760}$  (C. 1902 [1] 914).
- $C_4H_8O$ , \*10)  $\beta$ -Ketobutan (M. 22, 319).
- 16) l-Oxymethyl-R-Trimethylen. Sd.  $125$ — $126^{\circ}_{756}$  (C. 1901 [1] 1357; 1902 [1] 913).
- $C_4H_8O_2$ , \*4)  $\alpha$ -Oxy- $\beta$ -Ketobutan. Sd.  $160^{\circ}$  (C. 1901 [1] 96).
- \*5)  $\gamma$ -Oxy- $\beta$ -Ketobutan. Sm.  $15^{\circ}$ ; Sd.  $148^{\circ}$  (C. 1901 [1] 96; Bl. [3] 25, 415).
- \*7) Buttersäure. Sd.  $161$ — $162^{\circ}_{12}$ . Ca (A. 318, 144; Soc. 81, 356 C. 1902 [1] 981).
- \*8) Isobuttersäure. Ca (C. 1902 [1] 914; Soc. 81, 359 C. 1902 [1] 359).
- \*9) Aldehyd d.  $\beta$ -Oxybuttersäure (Aldol) (M. 22, 59; M. 22 1140 C. 1902 [1] 457).
- \*14) Äthylester d. Essigsäure. +  $SbCl_5$  (C. 1901 [2] 259; B. 35, 1116 C. 1902 [1] 923).
- $C_4H_8O_3$ , \*6)  $\beta$ -Oxybuttersäure (H. 33, 310).
- \*8)  $\alpha$ -Oxyisobuttersäure. Ba (C. 1902 [2] 16).
- \*17) Äthylester d. Oxyessigsäure (B. 34, 871).
- 23) d- $\beta$ -Oxybuttersäure. Chininsalz, Strychninsalz (Soc. 81, 1405 C. 1902 [2] 1409).
- 24) l- $\beta$ -Oxybuttersäure. K, Mg, Zn, Chininsalz +  $4\frac{1}{2}H_2O$  (C. 1902 [1] 110; Soc. 81, 1402 C. 1902 [2] 1409).
- 25) Aldehyd d.  $\alpha\beta$ -Dioxybuttersäure. Fl. (B. 35, 1907 C. 1902 [2] 22).
- $C_4H_8O_4$ , \*4)  $\beta\gamma$ -Dioxybuttersäure. Ba (B. 35, 942 C. 1902 [1] 858).
- \*10) d-Erythrose (B. 34, 1533).
- \*11) l-Erythrose (B. 34, 1367).

- $C_4H_8O_4$  \* 14) *p*-Dioxybuttersäure (*B.* 34, 1430).  
 16) *l*-Threose (*B.* 34, 1370).  
 $C_4H_8O_5$  \* 4) *d*-Erythronsäure (*Soc.* 81, 671 *C.* 1902 [2] 109).  
 8) *l*-Erythronsäure. Brucinsalz (*B.* 34, 1368).  
 $C_4H_8N_6$  2, 4, 5, 6-Tetraamido-1, 3-Diazin. Sm. 205°. 3HCl, Pikrat (*B.* 34, 3365).  
 $C_4H_8Br_2$  \* 2)  $\alpha\gamma$ -Dibrombutan. Sd. 170—174° (*C.* 1902 [1] 1277).  
 \* 3)  $\alpha\delta$ -Dibrombutan. Sd. 196—197° u. Zers. (*C.* 1901 [1] 610; 1901 [2] 807; 1902 [1] 914).  
 \* 6)  $\alpha\beta$ -Dibrom- $\beta$ -Methylpropan (*B.* 34, 4217 *C.* 1902 [1] 175).  
 $C_4H_8J_2$  2)  $\alpha\delta$ -Dijodbutan. Sd. 125—126°<sub>15</sub> (*C.* 1901 [1] 610).  
 $C_4H_8N$  8) *l*-Amidomethyl-*R*-Trimethylen. Sd. 88°. HCl, (2HCl, PtCl<sub>4</sub>) (*C.* 1901 [1] 1357; 1902 [1] 913).  
 $C_4H_8Cl$  \* 2)  $\beta$ -Chlorbutan. Sd. 67,3—67,8°<sub>767</sub> (*Am.* 26, 307).  
 $C_4H_8Br$  \* 2)  $\beta$ -Brombutan. Sd. 91,3° (*Am.* 26, 308).  
 $C_4H_{10}O$  \* 1)  $\alpha$ -Oxybutan (*C. r.* 133, 300; *B.* 35, 694 *C.* 1902 [1] 709).  
 \* 2)  $\beta$ -Oxybutan. Sd. 99,7—99,9° (*Am.* 26, 306).  
 \* 3) Isobutylalkohol. Zn, 4 + Al<sub>2</sub>Cl<sub>6</sub> (*Bl.* [3] 25, 555; *C.* 1901 [2] 1201; *M.* 23, 797 *C.* 1902 [2] 1093).  
 \* 4)  $\beta$ -Oxy- $\beta$ -Methylpropan (*C.* 1901 [1] 930; 1901 [2] 623).  
 $C_4H_{10}O_2$  \* 2)  $\alpha\gamma$ -Dioxybutan. Sd. 204—204,5° (*M.* 22, 63).  
 \* 3)  $\alpha\delta$ -Dioxybutan (Tetramethylen glykol). Sm. 16°; Sd. 230°<sub>750</sub> (*C.* 1901 [1] 818; *B.* 35, 1187 *C.* 1902 [1] 1011).  
 \* 4)  $\beta\gamma$ -Dioxybutan. Sd. 185° (*C. r.* 134, 472 *C.* 1902 [1] 743).  
 \* 5)  $\alpha\beta$ -Dioxy- $\beta$ -Methylpropan. Sd. 175—177° (*C.* 1902 [1] 628).  
 $C_4H_{10}O_4$  \* 1) *i*-Erythrit (*Soc.* 81, 187 *C.* 1902 [1] 576).  
 \* 2) *r*-Erythrit. Sm. 72° (*Bl.* [3] 25, 743).  
 \* 3) *d*-Erythrit (*Bl.* [3] 25, 740).  
 \* 4) *l*-Erythrit (*Bl.* [3] 25, 740).  
 $C_4H_{10}S$  \* 6) Diäthylsulfid (*C.* 1901 [1] 367).  
 $C_4H_{11}N$  \* 1) Butylamin (*C.* 1902 [1] 3).  
 \* 3) Isobutylamin (*C.* 1902 [1] 3, 914).  
 \* 6) Diäthylamin. 2HCl + MoOCl<sub>3</sub> (*B.* 34, 1574 *C.* 1902 [1] 3).  
 8) *d*- $\beta$ -Amidobutan. HCl, (2HCl, PtCl<sub>4</sub>) (*C.* 1901 [2] 28).  
 9)  $\beta$ -Methylamidopropan (Methylisopropylamin). HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (*Soc.* 79, 640).  
 10) Dimethylamidoäthan (Dimethyläthylamin). Sd. 28—30° (*C.* 1902 [2] 1403).  
 $C_4O_4Ni$  \* 1) Kohlenoxydnickel (*Ph. Ch.* 40, 1 *C.* 1902 [1] 903).  
 $C_4NCl_5$  \* 1) Pentachlorpyrrol. Sd. 209° (*G.* 32 [2] 30 *C.* 1902 [2] 902).  
 $C_4H_4OJ_2$  \* 1) 2, 4, 5, 6-Tetrachlor-1, 3-Diazin. Sm. 70° (*B.* 34, 4178 *C.* 1902 [1] 265).  
 $C_4N_2Br_4$  1) 2, 4, 5, 6-Tetrabrom-1, 3-Diazin. Sm. 165—166° (*B.* 34, 4180 *C.* 1902 [1] 265).

## — 4 III —

- $C_4HNBr_4$  1) 2, 3, 4, 5-Tetrabrompyrrol (*C.* 1901 [1] 1323).  
 $C_4H_4OBr_6$  \* 2) Hexabromtetrahydrofuran. Sm. 112° (*Am.* 25, 456).  
 $C_4H_4OJ_2$  1) 2, 5-Dijodfuran. Sm. 47° (*Am.* 25, 457).  
 $C_4H_4O_3N_4$  2) Verbindung (aus Acetylen). Sm. 108° (*G.* 32 [1] 203 *C.* 1901 [2] 178).  
 $C_4H_4O_3Br_2$  \* 3) Mucobromsäure (*B.* 34, 1632).  
 $C_4H_4O_4N_2$  \* 1) Alloxan (*B.* 34, 3290; *C.* 1902 [1] 631).  
 $C_4H_2O_5N_2$  3) 2, 5-Dinitrofuran? Sm. 101° (*Am.* 27, 198 *C.* 1902 [1] 908; *C. r.* 135, 507 *C.* 1902 [2] 1098).  
 $C_4H_2O_5N_2$  C 27,6 — H 1,1 — O 55,1 — N 16,1 — M. G. 174.  
 1) Bisanhydronitroessigsäure. Explod. bei 70°. K<sub>2</sub> + 3H<sub>2</sub>O (*B.* 34, 877).  
 $C_4H_2N_4Pt$  1) Platinblausäure. Salze meist bek. Lit. bed. — I, 1429; \*I, 798.  
 $C_4H_2O_3N$  C 42,5 — H 2,6 — O 42,5 — N 12,4 — M. G. 113.  
 1) 3-Nitrofuran. Sm. 28° (*C.* 1901 [1] 466; *C. r.* 134, 777 *C.* 1902 [1] 1107).  
 2) Verbindung (aus Acetylen). Sm. 149° (*G.* 32 [1] 204 *C.* 1901 [2] 178).  
 $C_4H_4O_4N_2$  \* 5) Violursäure (*B.* 35, 1004 *C.* 1902 [1] 868).  
 $C_4H_4JS$  \* 1) 2-Jodthiophen. Sd. 73°<sub>15</sub> (*J. pr.* [2] 65, 6 *C.* 1902 [1] 458).  
 $C_4H_4OCl_4$  3) Chlorid *d. p*-Trichlorisobuttersäure. Sd. 110—114°<sub>154</sub> (*B.* 34, 4055).

- $C_4H_4O_2N_2$  \*1) Pyruvinureid. Sm. 270° (*M.* 23, 814 *C.* 1902 [2] 1417).  
 \*3) Pyrazol-3-Carbonsäure. Sm. 210—212°. CuOH (*B.* 35, 41 *C.* 1902 [1] 425).  
 \*4) Pyrazol-4-Carbonsäure. Zers. bei 275° (*B.* 35, 35 *C.* 1902 [1] 424).  
 \*10) 2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin (Uracil). Sm. 335° u. Zers. (*H.* 32, 244; *B.* 34, 3761 *C.* 1902 [1] 53).  
 1) Verbindung (aus Pankreasnucleinsäure) (*H.* 32, 546).  
 $C_4H_4O_2N_6$  2) Urazoguanazol (*G.* 31, [1] 506).  
 3) Imidurazoimidurazol (*G.* 31 [1] 508).  
 $C_4H_4O_2Cl_4$  \*5)  $\alpha\beta\beta\beta$ -Tetrachloräthylester d. Essigsäure. Sd. 189° (*G.* 31, [1] 90).  
 $C_4H_4O_2Br_2$  \*2) cis- $\alpha\beta$ -Dibromcrotonsäure. Sm. 95—97° (*B.* 34, 4221 *C.* 1902 [1] 176).  
 \*3) trans- $\alpha\beta$ -Dibromcrotonsäure. Sm. 120°. Pb (*B.* 34, 4222 *C.* 1902 [1] 176).  
 $C_4H_4O_2N_2$  \*2) Barbitursäure (*B.* 35, 1006 *C.* 1902 [1] 868).  
 \*8) Methyl ester d. Oximidocyanessigsäure. Na (*Bl.* [3] 27, 1011 *C.* 1902 [2] 1412).  
 $C_4H_4O_2N_4$  3) Nitrothymin (*H.* 32, 241).  
 $C_4H_4O_2N_2$  \*3) Dialursäure (*A.* 315, 248; *B.* 34, 3288).  
 \*4) 2,4,5-Triketo-6-Oxyhexahydro-1,3-Diazin (Isodialursäure) (*A.* 315, 248, 259).  
 $C_4H_4O_4N_4$  \*3) 1,4-Dihydro-1,2,4,5-Tetrazin-3,6-Dicarbonsäure. Sm. 287° (*Soc.* 81, 606 *C.* 1902 [1] 747).  
 \*4) Bisazoessigsäure (*Soc.* 81, 602 *C.* 1902 [1] 747).  
 5) Tetracarbonimid. Na, Ba, (*B.* 34, 4130 *C.* 1902 [1] 252).  
 6) Diimidazoessigsäure. Ba (*Soc.* 81, 603 *C.* 1902 [1] 747).  
 7) Diamid d. Bisanhidronitroessigsäure. Zers. bei 120—121° (*B.* 34, 878).  
 8) Diamid d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sm. 253° u. Zers. (*C.* 1901 [2] 274).  
 $C_4H_4O_4N_4$  \*1) Bisazoxyessigsäure (*Soc.* 81, 608 *C.* 1902 [1] 747).  
 $C_4H_3ON$  \*7) Nitril d.  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure. Sd. 93—94°<sub>16—17</sub> (*R.* 21, 213 *C.* 1902 [2] 505).  
 12) 2-Amidofuran (*J. pr.* [2] 65, 38 *C.* 1902 [1] 461).  
 $C_4H_3ON_7$  C 28,7 — H 3,0 — O 9,6 — N 58,7 — M. G. 167.  
 1) Imidurazoguanazol (*G.* 31 [1] 505).  
 $C_4H_3OCl$  \*2) Chlorid d.  $\alpha$ -Crotonsäure. Sd. 114° (*B.* 34, 193).  
 3) Chlorid d. Isocrotonsäure (*B.* 34, 192).  
 4) Chlorid d. R-Trimethylen-carbonsäure. Sd. 120—122°<sub>754</sub> (*C.* 1901 [1] 1357; 1902 [1] 914).  
 $C_4H_3OCl_3$  6) Chlorid d.  $\beta$ -Dichlorbuttersäure. Sd. 98—100°<sub>42</sub> (*B.* 34, 4053 *C.* 1902 [1] 177).  
 $C_4H_3O_2N$  \*2)  $\alpha$ -Cyanpropionsäure. Ca (*C.* 1901 [1] 675).  
 \*7) Imid d. Bernsteinsäure (*C.* 1902 [1] 711).  
 9) Methyl ester d. Cyanessigsäure (*Bl.* [3] 13, 1029). — \*I, 677.  
 $C_4H_3O_2N_3$  \*3) 4-Oximido-5-Keto-3-Methyl-4,5-Dihydropyrazol (*B.* 35, 223 *C.* 1902 [1] 393).  
 12) 4-Imido-2,6-Diketo-hexahydro-1,3-Diazin (*C.* 1901 [1] 548).  
 $C_4H_3O_2Cl_3$  \*9) Äthylester d. Trichloressigsäure (*C.* r. 133, 737).  
 $C_4H_3O_2N$  10) Oxaläthylesternitriloxyd. Sm. 111—111,5° (*B.* 34, 865, 876).  
 $C_4H_3O_2N_4$  \*2) Uramil (*B.* 34, 3290).  
 $C_4H_3O_2N$  3) Methylmonamid d. Mesoxalsäure? Fl. (*B.* 31, 2161). — \*I, 786.  
 $C_4H_3O_2N_3$  6) 2-Imido-4,6-Diketo-5,5-Dioxyhexahydro-1,3-Diazin (Mesoxalylguanidin) (*B.* 35, 3603 *C.* 1902 [2] 1411).  
 $C_4H_3O_2Br$  \*2) i-Brombernsteinsäure (*Ph. Ch.* 41, 483 *C.* 1902 [2] 786).  
 $C_4H_3O_2N$  \*1) anti-Oximidobernsteinsäure. Sm. 133° (*Soc.* 79, 95).  
 \*2) syn-Oximidobernsteinsäure. Sm. 88° (*Soc.* 79, 95).  
 $C_4H_3O_2N_3$  C 27,4 — H 2,8 — O 45,7 — N 24,0 — M. G. 175.  
 1) Verbindung (aus d. Verb.  $C_{16}H_{26}O_{11}N_{12}S_4$ ).  $NH_4$ , Ag +  $H_2O$ ,  $Ag_2$  (*A.* 315, 266).  
 $C_4H_3NCl_2$  \*1) Nitril d.  $\beta\gamma$ -Dichlorbuttersäure. Sd. 113—114°<sub>25</sub> (*C.* r. 129, 225). — \*I, 805.  
 $C_4H_3ON_2$  \*2) 5-Keto-3-Methyl-4,5-Dihydropyrazol. Sm. 215—216° (*C.* 1901 [1] 1155).



- $C_4H_9ON_2$  \*11) Nitril d.  $\alpha$ -Nitrosoisobuttersäure (B. 34, 1864).  
 $C_4H_9ON_4$  7) 2,6-Diamido-4-Oxy-1,3-Diazin. (D.R.P. 134 984 C. 1902 [2] 1165).  
 $C_4H_9OCl_2$  \*7) Chlorid d.  $\alpha$ -Chlorbuttersäure. Sd. 128—130° (B. 34, 4052 C. 1902 [1] 177).  
 \*8) Chlorid d.  $\gamma$ -Chlorbuttersäure. Sd. 173—174° (B. 34, 4053 C. 1902 [1] 177).  
 10) Chlorid d.  $\beta$ -Chlorbuttersäure. Sd. 67—69°<sub>41</sub> (B. 34, 4052 C. 1902 [1] 177).  
 11) Chlorid d.  $\beta$ -Chlorisobuttersäure. Sd. 171—172° u. Zers. (B. 34, 4054 C. 1902 [1] 177).  
 $C_4H_6O_2N_2$  \*4) 2,4-Diketo-5-Methyltetrahydroimidazol. Sm. 145° (M. 23, 808 C. 1902 [2] 1417).  
 \*5) 2,4-Diketohexahydro-1,3-Diazin (Hydrouracil). Sm. 275° (B. 34, 144, 3289; B. 34, 3759 C. 1902 [1] 53; B. 34, 4129 C. 1902 [1] 267).  
 \*6) 2,5-Diketohexahydro-1,4-Diazin. Zers. bei 280—285°.  $Cu + H_2O$ , (2HCl,  $PtCl_4 + 3H_2O$ ) (B. 34, 1503, 2870).  
 18)  $\alpha\delta$ -Dioximido- $\beta$ -Buten. Zers. bei 220° (C. r. 134, 907 C. 1902 [1] 1272).  
 $C_4H_6O_4N_4$  19) Aethylester d. Isodiazoessigsäure.  $Na + \frac{1}{2}H_2O$ , K (B. 34, 2512).  
 $C_4H_6O_4N_6$  7) Verbindung (aus d. Verb.  $C_4H_{10}O_4N_6$ ). Sm. 196° (Soc. 79, 94).  
 \*3) Diamid d. Diimidoazoessigsäure (Pseudodiazoacetamid).  $NH_4$ , 3Ag +  $AgNO_3$  (Soc. 81, 600 C. 1902 [1] 747; C. 1902 [2] 107).  
 4) 5-Nitro-2,4,6-Triamido-1,3-Diazin. Sm. noch nicht bei 270° (B. 34, 3365).  
 5) Diamid d. 1,4-Dihydro-1,2,4,5-Tetrazin-3,6-Dicarbonsäure. Sm. 278° u. Zers. (Soc. 81, 605 C. 1902 [1] 747).  
 $C_4H_6O_4Br_2$  14)  $\beta\gamma$ -Dibrombuttersäure. Sm. 49—50° (B. 35, 942 C. 1902 [1] 858).  
 $C_4H_6O_4N_2$  4) Oxyhydrouracil. Sm. 228° u. Zers. (B. 34, 3760 C. 1902 [1] 53).  
 $C_4H_6O_4N_4$  2) 1-Acetyl-3,6-Diketohexahydro-1,2,4,5-Tetrazin. Zers. bei 235° (G. 31 [2] 556 C. 1902 [1] 480).  
 $C_4H_6O_4Br_2$  1)  $\beta\gamma$ -Dibrom- $\alpha$ -Oxybuttersäure. Sm. 121—121,5° (R. 21, 227 C. 1902 [2] 505).  
 $C_4H_6O_4Hg$  1) Oxymerkurirotonsäure (B. 35, 2575 C. 1902 [2] 570).  
 $C_4H_6O_4N_2$  \*4) Acetoxylidamid d. Oxalsäure. Sm. 171—172° (G. 32 [1] 216 C. 1902 [1] 1199).  
 \*5) Methyloxalursäure (A. 323, 167 C. 1902 [2] 890).  
 6) 3-Nitro-2-Keto-3,4,5,6-Tetrahydro-1,3-Oxazin. Sm. 74° (R. 21, 55 C. 1902 [1] 976).  
 $C_4H_6O_4S_2$  \*1) Dithidiglykolsäure. Sm. 100°.  $Na_2$  (R. 20, 136).  
 $C_4H_6O_4Se$  2) Selenverbindung (aus Erythrit). Sm. 155° (C. r. 134, 1508 C. 1902 [2] 347).  
 $C_4H_6O_4N_2$  \*4) Aethylester d. Oximidonitroessigsäure (B. 35, 152 C. 1902 [1] 411).  
 $C_4H_6O_4N_4$  \*1) Erythrittetranitrat. Sm. 61—62° (C. r. 133, 541).  
 $C_4H_7ON$  12) Nitril d.  $\alpha$ -Oxybuttersäure. Fl. (C. 1898 [1] 984). — \*I, 812.  
 13) Nitril d.  $\beta$ -Oxybuttersäure. Sd. 220—221°<sub>57</sub> (C. 1898 [1] 984). — \*I, 812.  
 14) Amid d. R-Trimethylenecarbonsäure. Sm. 124—124,5° (120°) (C. 1901 [2] 580; 1902 [1] 914).  
 $C_4H_7ON_2$  \*1) Kreatinin (B. 35, 160 C. 1902 [1] 413).  
 $C_4H_7OCl$  \*1)  $\gamma$ -Chlor- $\beta$ -Ketobutan. Sd. 115°<sub>758</sub> (C. 1901 [1] 95).  
 \*11)  $\alpha$ -Chlor- $\beta$ -Ketobutan. Sd. 125°<sub>756</sub> (C. 1901 [1] 95).  
 $C_4H_7OCl_3$  \*2)  $\alpha\alpha\alpha$ -Trichlor- $\beta$ -Oxy- $\beta$ -Methylpropan. Sm. 80—81°; Sd. 167° (C. r. 133, 1011 C. 1902 [1] 176).  
 $C_4H_7OBr$  11)  $\alpha$ -Brom- $\beta$ -Ketobutan. Sd. 145—146° (C. 1901 [1] 95).  
 12)  $\gamma$ -Brom- $\beta$ -Ketobutan. Sd. 133—134° (C. 1901 [1] 95).  
 $C_4H_7O_2N$  \*2)  $\gamma$ -Oximido- $\beta$ -Ketobutan (B. 35, 3292 C. 1902 [2] 1247).  
 \*7) Imid d. Essigsäure. Sm. 78° (Soc. 79, 412).  
 9)  $\alpha$ -Nitro- $\beta$ -Methylpropen. Sd. 153° (C. 1901 [1] 218; C. r. 131, 1212; C. r. 134, 1145 C. 1902 [2] 21).  
 10)  $\alpha$ -Methylenamidopropionsäure (A. 319, 63).  
 11) Amid d.  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure. Sm. 80,8°; Sd. 155—158°<sub>20—21</sub> (R. 21, 220 C. 1902 [2] 505).  
 12) Amid d. Acetylessigsäure. Sm. 50° (A. 213, 174; B. 35, 583 C. 1902 [1] 570).

- $C_4H_7O_2N_3$  8) Base (aus Tetrahydroharnsäure). (2HCl,  $PtCl_4 + 2H_2O$ ),  $HNO_3$ ,  $H_2SO_4$ , Pikrat (*B. 34*, 277).
- $C_4H_7O_2N_3$  C 30,6 — H 4,4 — O 20,4 — N 44,6 — M. G. 157.
- 1) Imidoallantoïn +  $H_2O$ . Subl. bei  $300^\circ$ ; (2HCl,  $PtCl_4 + 2H_2O$ ), (HCl,  $AuCl_3 + 2H_2O$ ), +  $HgCl_2$  (*A. 315*, 6; *B. 35*, 3605 *C. 1902* [2] 1412).
- $C_4H_7O_2Cl$  \*2)  $\alpha$ -Chlorbuttersäure. Sm.  $102-103^\circ$ ; Sd.  $101,25^{+15}_{-13}$  (*A. 319*, 357 *C. 1902* [1] 406; *A. 319*, 372 *C. 1902* [1] 408; *B. 34*, 4052 *C. 1902* [1] 177).
- \*3)  $\beta$ -Chlorbuttersäure. Sm.  $16-16,5^\circ$ ; Sd.  $98,5-99,5^{+12}_{-10}$  (*A. 319*, 358 *C. 1902* [1] 406; *A. 319*, 373 *C. 1902* [1] 408; *B. 34*, 4052 *C. 1902* [1] 177).
- \*4)  $\gamma$ -Chlorbuttersäure. Sm.  $16^\circ$ ; Sd.  $115-115,5^{+13}_{-10}$  (*A. 319*, 360 *C. 1902* [1] 406; *A. 319*, 374 *C. 1902* [1] 408; *B. 34*, 4053 *C. 1902* [1] 177).
- \*13) Propylester d. Chlorameisensäure. Sd.  $115^\circ$  (*C. 1901* [1] 428).
- 17) Aethylenäther d.  $\beta$ -Chlor- $\alpha\alpha$ -Dioxyäthan. Sd.  $156-157^\circ$  (*Bl. 3*] 25, 580).
- 18) Chlormethylester d. Propionsäure. Sd.  $128-130^{+743}_{-743}$  (*Bl. 3*] 27, 871 *C. 1902* [2] 934).
- $C_4H_7O_2Br$  \*1)  $\alpha$ -Brombuttersäure (*A. 319*, 374 *C. 1902* [1] 407).
- \*3)  $\gamma$ -Brombuttersäure (*A. 319*, 354 *C. 1902* [1] 408).
- \*4)  $\alpha$ -Bromisobuttersäure. Sm.  $48-49^\circ$  (*B. 34*, 4043 *C. 1902* [1] 177).
- \*10)  $\beta$ -Bromäthylester d. Essigsäure. Sm.  $-13,8^\circ$ ; Sd.  $162-163^{+760}_{-760}$  (*C. 1901* [1] 1356).
- $C_4H_7O_2J$  \*2)  $\gamma$ -Jodbuttersäure (*A. 319*, 385 *C. 1902* [1] 408).
- \*6)  $\beta$ -Jodäthylester d. Essigsäure. Sd.  $184^{+743}_{-743}$  (*C. 1901* [1] 1356).
- \*7)  $\alpha$ -Jodisobuttersäure. Sm.  $73,5^\circ$  (*C. 1901* [1] 666).
- 8)  $\alpha$ -Jodbuttersäure. Sm.  $41-42^\circ$  (*C. 1901* [1] 666).
- $C_4H_7O_2N$  \*1)  $\alpha$ -Oximidobuttersäure. Sm.  $154^\circ$  (*R. 21*, 236 *C. 1902* [2] 506).
- 14) Acetylamid d. Oxyessigsäure. Sm.  $92^\circ$  (*B. 34*, 3155).
- $C_4H_7O_2N$  \*4) l-Asparaginsäure. Zers. bei  $240-300^\circ$ .  $Cu + 4\frac{1}{2}H_2O$  (*B. 34*, 351, 387; *A. 319*, 66; *H. 35*, 76 *C. 1902* [1] 1018).
- \*9) Aethylester d. Nitroessigsäure. Sd.  $105-107^{+95}_{-95}$ . Na, K, Ag (*Bl. 3*] 25, 695, 920).
- \*16)  $\beta$ -Amid d. r- $\alpha$ -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm.  $148^\circ$  (*B. 35*, 2461 *C. 1902* [2] 567).
- \*17)  $\beta$ -Amid d. d- $\alpha$ -Oxyäthan- $\alpha\beta$ -Dicarbonsäure. Sm.  $149^\circ$ . Ag (*B. 35*, 2460 *C. 1902* [2] 567).
- \*18)  $\beta$ -Amid d. l- $\alpha$ -Oxyäthan- $\alpha\beta$ -Dicarbonsäure (*B. 35*, 2461 *C. 1902* [2] 567).
- 19) Nitrit d. Oxyessigsäureäthylester (*B. 34*, 874).
- $C_4H_7O_2N$  \*2) Aethylester d. Salpeteroxyessigsäure (*B. 34*, 874).
- $C_4H_7NS_2$  8) Allylester d. Amidodithioameisensäure. Sm.  $32^\circ$  (*B. 35*, 3381 *C. 1902* [2] 1363).
- $C_4H_8ON_2$  \*6) 2-Ketohexahydro-1,3-Diazin. Pikrat (*B. 34*, 3289).
- $C_4H_8OJ_2$  1) Di[ $\beta$ -Jodäthyl]äther. Fl. (*B. 34*, 1391, 2906).
- $C_4H_8OF_2$  1) Aethyläther d.  $\beta\beta$ -Difluor- $\alpha$ -Oxyäthan. Sd.  $66,3-66,7^\circ$  (*C. 1901* [2] 804).
- $C_4H_8OHg$  1) Quecksilberdiäthylenoxyd. Sm.  $145^\circ$ . + 2HgCl<sub>2</sub>, Pikrat (*B. 34*, 2913).
- $C_4H_8OHg_2$  1) Verbindung (aus Quecksilberäthylätherbromid). Sm.  $140-150^\circ$  (*B. 34*, 2913).
- $C_4H_8O_2N_2$  \*3)  $\alpha\delta$ -Dioximidobutan (*B. 34*, 1493).
- \*5)  $\beta\gamma$ -Dioximidobutan. Sm.  $234^\circ$  (*G. 31*, [1] 403).
- \*13) Amid d. Aethan- $\alpha\alpha$ -Dicarbonsäure. Sm.  $216,5^\circ$  (*Soc. 39*, 545; *B. 35*, 848 *C. 1902* [1] 745).
- 21) uns-Diacetylhydrazin. Sm.  $132^\circ$ . Cu, Hg (*A. 305*, 218). — \*I, 821.
- 22)  $\alpha\beta$ -Diformyl- $\alpha\beta$ -Dimethylhydrazin. Fl. (*B. 31*, 63). — \*I, 820.
- 23) 2-Keto-5-Oxyhexahydro-1,3-Diazin. Sm.  $185-195^\circ$  (*B. 34*, 3290).
- 24) Amid d.  $\alpha$ -Nitrosoisobuttersäure. Sm.  $158^\circ$  u. Zers. (*B. 34*, 1866).
- \*2)  $\alpha$ -Merkaptoisobuttersäure. Ag<sub>2</sub> (*B. 35*, 3386 *C. 1902* [2] 1364).
- \*2)  $\beta$ -Nitroso- $\beta$ -Nitrobutan. Sm.  $58^\circ$  (*B. 35*, 3096 *C. 1902* [2] 1183).
- \*5) Lakturaminsäure. Sm.  $161^\circ$ . K (*M. 23*, 805 *C. 1902* [2] 1417).
- \*9) Aethylester d. Allophansäure. Sm.  $190^\circ$  (*B. 34*, 2798).
- \*13) l-Asparagin (*B. 34*, 387, 2677).
- 21) Amidoacetylamidoessigsäure (Glycylglycin). Zers. bei  $215-220^\circ$ . HCl +  $H_2O$  (*B. 34*, 2870).

- $C_4H_6O_2N_2$  22) Nitril d.  $\alpha$ -Nitroisobuttersäure. Sm. 117—118° (B. 34, 1865).  
 $C_4H_5O_3N_4$  C 30,0 — H 5,0 — O 30,0 — N 35,0 — M. G. 160.  
 1)  $\alpha$ -Nitro- $\beta$ -Semicarbazonpropan (Nitroacetonsenicarbazon). Sm. 163 bis 164° (A. 319, 253 C. 1902 [1] 189).
- $C_4H_8O_2N_2$  22)  $\beta$ -Nitrat d.  $\alpha$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylpropan. Sm. 114—115° (C. 1901 [2] 1201).  
 23) Aethylester d. Methylnitramidoameisensäure. Fl. (A. 288, 291; B. 31, 1395, 1397; Ph. Ch. 22, 373). — \*I, 712.
- $C_4H_6N_2S$  \*4) 2-Imido-3-Methyltetrahydrothiazol (B. 34, 3549).  
 $C_4H_8N_2S_4$  \*1) Disulfid d. Methylamidodithioameisensäure (Dimethylthiuramdisulfid). Sm. 102° (B. 35, 821 C. 1902 [1] 712).  
 2) Dimethyläther d. Di[Imidomerkaptomethyl]disulfid (Dimethylisothiuramdisulfid). Sm. 85° (B. 35, 827 C. 1902 [1] 713).  
 3) Aethylenester d. Amidodithioameisensäure. Sm. 188—189° (C. 1902 [1] 1401).
- $C_4H_6N_6S_2$  1)  $\alpha\beta$ -Di[Thiosemicarbazon]äthan. Zers. oberh. 300°.  $Ag_2$  (B. 35, 2054 C. 1902 [2] 105).
- $C_4H_8ON$  \*4)  $\beta$ -Oximidobutan (C. 1901 [2] 260).  
 \*5)  $\alpha$ -Oximido- $\beta$ -Methylpropan. Sd. 140° (C. r. 134, 1146 C. 1902 [2] 21).  
 \*6) N-Methylisoacetoxim. + NaJ (Soc. 79, 631).  
 \*7) Morpholin (B. 34, 1158, 2906; C. 1901 [1] 1074).  
 \*9) Amid d. Buttersäure. Hg (B. 35, 1312 C. 1902 [1] 1088).  
 \*12) Aethylamid d. Essigsäure. Sd. 204—205°. HCl, Na (Soc. 79, 401).  
 14) Aethyläther d.  $\beta$ -Oximidopropan. Sd. 72—72,5°. (2HCl, PtCl<sub>4</sub>) (Soc. 79, 631).  
 15) Aethyläther d. Oximidoäthan. Sd. 71—71,5° (Soc. 79, 636).  
 16) 2-Methyltetrahydrooxazol. Sd. 140—142°<sub>748</sub>. Pikrat (B. 34, 3488).  
 17) 3-Methyltetrahydrooxazol. Sd. 100°<sub>735</sub>. Pikrat (B. 34, 3488).
- $C_4H_6ON_3$  2)  $\beta$ -Nitroso- $\alpha$ -Imido- $\alpha$ -Amido- $\beta$ -Methylpropan. HCl + H<sub>2</sub>O (B. 34, 1869).
- $C_4H_8OCl$  \*1)  $\beta$ -Chlor- $\alpha$ -Oxy- $\beta$ -Methylpropan (J. pr. [2] 64, 102, 387).  
 \*3) Chlormethyläther d.  $\alpha$ -Oxypropan. Sd. 105—110° (D.R.P. 135310 C. 1902 [2] 1165).  
 6)  $\gamma$ -Chlor- $\beta$ -Oxybutan. Sd. 136—137° (C. 1902 [2] 20).  
 7)  $\alpha$ -Chlor- $\beta$ -Oxy- $\beta$ -Methylpropan. Sd. 126—128° (C. 1901 [1] 996; 1902 [2] 20; J. pr. [2] 64, 104, 387; C. r. 134, 775 C. 1902 [1] 1093).
- $C_4H_6O_2N$  \*10)  $i$ - $\alpha$ -Amidobuttersäure (B. 35, 2554 C. 1902 [2] 572).  
 \*16) Dimethylamidoessigsäure. Cu + 3 H<sub>2</sub>O (B. 35, 604).  
 \*21) Methyl ester d. Dimethylamidoameisensäure (B. 35, 601 C. 1902 [1] 572).  
 \*22) Aethylester d. Amidoessigsäure. Sd. 43—44°<sub>11</sub>. Pikrat (B. 34, 436).  
 \*23) Aethylester d. Methylamidoameisensäure (C. 1901 [2] 260).  
 \*26) Amid d. Oxyessigäthyläthersäure. Sm. 80° (B. 34, 873; J. pr. [2] 65, 480 C. 1902 [2] 23).  
 31)  $\alpha$ -Oximido- $\alpha$ -Oxy- $\beta$ -Methylpropan (Isobutyrylhydroxamsäure) (B. 34, 2032).  
 32)  $\beta$ -Amidoäthylester d. Essigsäure. Pikrat (B. 22, 222; 23, 2502). — \*I, 645.  
 33) Amid d.  $\alpha$ -Oxyisobuttersäure. Sm. 98°; Sd. 260° (PINNER, Imidoäther S. 37). — \*I, 753.
- $C_4H_8O_2N_3$  \*3) Kreatin (B. 35, 160 C. 1902 [1] 413).  
 10)  $\beta$ -Semicarbazon- $\alpha$ -Oxypropan. Sm. 196° (B. 34, 2980).  
 11) Amid d.  $\alpha$ -Amidoäthan- $\alpha\beta$ -Dicarbonsäure (A. d. Asparaginsäure). Sm. 131° (B. 35, 1106 C. 1902 [1] 911).
- $C_4H_5O_2Br$  2) Dimethyläther d.  $\beta$ -Brom- $\alpha\alpha$ -Dioxyäthan. Sd. 145° (B. 35, 602 C. 1902 [1] 572).
- $C_4H_8O_2N$  \*2)  $\alpha$ -Nitro- $\beta$ -Oxybutan. Sd. 204°<sub>767</sub>. Pikrat (C. 1902 [1] 716).  
 \*7) Nitrat d.  $\alpha$ -Oxy- $\beta$ -Methylpropan (Isobutylnitrat) (C. 1902 [1] 4).  
 18) Methyl ester d.  $\beta$ -Oxyäthylamidoameisensäure. Fl. (R. 21, 47 C. 1902 [1] 975).
- $C_4H_8O_7N$  19) Aethylester d. Hydroxylamidoessigsäure (Bl. [3] 25, 924).  
 C 26,2 — H 4,9 — O 61,2 — N 7,7 — M. G. 183.  
 1) Diacetylsalpetersäure. Sd. 127,7°<sub>730</sub> (B. 35, 2526 C. 1902 [2] 439; D.R.P. 137100 C. 1902 [2] 1438).

- $C_4H_9NS_2$  \*2) Dimethyläther d. Methylimidodimerkaptomethan. *Sd.* 192° (HCl,  $HgCl_2$ ), (HCl, 3  $HgCl_2$ ), (2HCl,  $PtCl_4$ ), HJ, (HJ,  $HgJ_2$ ),  $H_2SO_4$ , Pikrat (*Bl.* [3] 27, 60 *C.* 1902 [1] 577; *B.* 35, 3382 *C.* 1902 [2] 1363, *C. r.* 134, 110 *C.* 1902 [1] 413).
- 5) Methyl ester d. Dimethylamidodithioameisensäure. *Sm.* 47°; *Sd.* 243° (*C. r.* 134, 715 *C.* 1902 [1] 977; *B.* 35, 3379 *C.* 1902 [2] 1363).
- 6) Äthylester d. Methylamidodithioameisensäure. *Fl.* (*Bl.* [3] 27, 813 *C.* 1902 [2] 695).
- $C_4H_9N_2S$  2)  $\beta$ -Thiosemicarbazonpropan. *Sm.* 179° (*B.* 35, 2604 *C.* 1902 [2] 572).
- $C_4H_{10}ON_2$  \*7) Trimethylharnstoff (*C.* 1902 [1] 20).
- \*10) Amid d.  $\beta$ -Amidobuttersäure. HCl (*A.* 319, 302 *C.* 1902 [1] 361).
- 12) Amid d.  $\alpha$ -Amidoisobuttersäure. HBr (*A.* 319, 302 *C.* 1902 [1] 361).
- 13) Amid d. Äthylamidoessigsäure. HCl (*A.* 319, 301 *C.* 1902 [1] 361).
- 14) Hydrazid d. Buttersäure. Nadeln. *Sd.* 120°<sub>10</sub> (*C.* 1901 [1] 1155).
- $C_4H_{10}OSn$  \*1) Zinn-diäthyl oxyd (*B.* 35, 3304 *C.* 1902 [2] 1246).
- $C_4H_{10}O_2N_2$  16)  $\alpha$ -Amido- $\alpha$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylpropan ( $\alpha$ -Oxyisobuttersäure-amidoxim). *Sm.* 51–52°; subl. bei 55–60° (*A.* 321, 370 *C.* 1902 [1] 1276).
- 17)  $\alpha\gamma$ -Diamidobuttersäure. Oxalat +  $H_2O$  (*B.* 34, 2904). *C.* 320 — H 6,7 — O 42,7 — N 18,6 — M. G. 150.
- 1)  $\gamma$ -Methylnitramido- $\alpha\beta$ -Dioxypropan (*R.* 15, 203). — \*I, 651.
- 2) bim. Glykolimidohydrin (siehe auch  $C_2H_5O_2N$ ). *Sm.* 162–163° (*B.* 34, 3149).
- $C_4H_{10}O_4N_4$  5) Verbindung (aus Oxaleessigsäure). *Sm.* 99° (*Soc.* 79, 93).
- $C_4H_{10}O_4S$  \*6) Diäthylester d. Schwefelsäure (D.R.P. 133542 *C.* 1902 [2] 314).
- $C_4H_{10}Cl_2Sn$  \*1) Zinn-diäthylchlorid. *Sm.* 74° (*B.* 35, 3306 *C.* 1902 [2] 1246).
- $C_4H_{10}J_2Sn$  \*1) Zinn-diäthyljodid. *Sm.* 44–45° (*B.* 35, 3305 *C.* 1902 [2] 1246).
- $C_4H_{11}ON$  \*1)  $\beta$ -Äthylamido- $\alpha$ -Oxyäthan. Pikrolonat (*A.* 315, 110).
- \*2)  $\beta$ -Dimethylamido- $\alpha$ -Oxyäthan. *Sd.* 135°<sub>755</sub>. Pikrat +  $\frac{1}{2}H_2O$ , Pikrolonat (*B.* 34, 3482).
- \*5)  $\beta$ -Diäthylhydroxylamin. *Sd.* 132–132,5°<sub>757</sub>. HCl, HBr, Oxalat (*J. pr.* [2] 63, 100).
- 10)  $\beta$ -Amido- $\alpha$ -Oxybutan. *Sd.* 172–174°. Oxalat (*C.* 1902 [1] 717).
- 11)  $\alpha$ -Amido- $\beta$ -Oxybutan. *Sd.* 172°<sub>755</sub> (*C.* 1902 [1] 716).
- $C_4H_{11}ON_3$  *C.* 41,0 — H 9,4 — O 13,7 — N 35,9 — M. G. 117.
- 1)  $\beta$ -Hydroxylamido- $\alpha$ -Imido- $\alpha$ -Amido- $\beta$ -Methylpropan. HCl (*B.* 34, 1868).
- $C_4H_{11}O_3N$  5)  $\beta$ -Methylamido- $\alpha\gamma$ -Dioxypropan? Pikrolonat (*B.* 32, 755). — \*I, 652.
- $C_4H_{11}O_3P$  2) Methyl ester d.  $\alpha$ -Oxyisopropylunterphosphorigesäure. *Fl.* (*C. r.* 134, 288 *C.* 1902 [1] 566).
- $C_4H_{12}NCl$  \*1) Tetramethylammoniumchlorid. 2 +  $MoOCl_5$  (*B.* 34, 1574).
- $C_4H_{13}ON$  \*1) Tetramethylammoniumhydroxyd. Acetat, Benzoat, Methylphthalat (*B.* 35, 2759 *C.* 1902 [2] 632).
- $C_4H_{15}O_3J$  1) Verbindung (aus Methylalkohol u. Jodmethyl). *Sd.* 37,9°<sub>760</sub> (*Bl.* [3] 25, 572).
- $C_4N_2Cl_2J_2$  1) Dichlordijod-1,3-Diazin. *Sm.* 159° (*B.* 34, 4179 *C.* 1902 [1] 265).
- $C_4N_2Cl_3J$  1) Trichlorjod-1,3-Diazin. *Sm.* 93–94° (*Bl.* 34, 4180 *C.* 1902 [1] 265).
- 4 IV —
- $C_4HONBr_2$  1) Mukobromsäureamidandehydrid. *Sm.* 153° (*B.* 34, 1020).
- $C_4HO_2NCl_2$  \*2) Imid d. Dichlormaleinsäure. *Sm.* 176° u. Zers. (*G.* 32 [2] 32 *C.* 1902 [2] 902).
- $C_4HO_2N_2J_3$  1) Nitrotrijodpyrrol. Zers. bei 185–187°.  $NH_4$ , Na, K (*C.* 1901 [1] 946).
- $C_4HO_2N_3J_2$  1) Dinitrodijodpyrrol. *Sm.* 190–192° u. Zers. K (*C.* 1901 [1] 946).
- $C_4H_2ON_2Br_2$  \*1) 4,5-Dibrom-3-Keto-2,3-Dihydro-1,3-Diazin. *Sm.* 218 (*B.* 34, 1014).
- $C_4H_3O_2Cl_2Br$  1) Chlorid d. Brombernsteinsäure. *Fl.* (*M.* 22, 424).
- $C_4H_3O_3N_3Br$  \*1) Brombarbitursäure.  $NH_4$  (*B.* 35, 523 *C.* 1902 [1] 659).
- $C_4H_4O_6NS$  1) 5-Nitrofuran-2-Sulfonsäure. K (*Ann.* 27, 197 *C.* 1902 [1] 908).
- $C_4H_4O_2NCl$  \*2) Chlorimid d. Bernsteinsäure. *Sm.* 150° (*B.* 34, 4213 *C.* 1902 [1] 252).

- $C_4H_4O_2Cl_2Br$  1) Acetat d.  $\beta\beta\beta$ -Trichlor- $\alpha$ -Brom- $\alpha$ -Oxyäthan. Sd.  $106^{\circ}_{735}$  (*G.* 31 [1] 83).
- $C_4H_4O_2Cl_2J$  1) Acetat d.  $\beta\beta\beta$ -Trichlor- $\alpha$ -Jod- $\alpha$ -Oxyäthan. Fl. (*G.* 31 [1] 84).
- $C_4H_4NClBr_2$  1) Nitril d.  $\beta$ -Chlor- $\beta\gamma$ -Dibrombuttersäure. Sm.  $118^{\circ}$  (*A. ch.* [6] 29, 460). — \*I, 805.
- $C_4H_4NClS$  3)  $\beta$ -Chlorallylsenföhl. Sd.  $182^{\circ}$  (*Soc.* 79, 555).
- $C_4H_4ONS_2$  \*1) 2-Thiocarbonyl-4-Keto-5-Methyltetrahydrothiazol. Sm.  $124^{\circ}$  (*C.* 1902 [2] 578).
- $C_4H_5O_2N_2Br$  2) 4-Brom-2,5-Diketo-4-Methyltetrahydroimidazol (*M.* 23, 813 *C.* 1902 [2] 1417).
- 3) 5- oder 6-Brom-2,4-Diketo-hexahydro-1,3-Diazin (*B.* 34, 2760).
- $C_4H_5O_2N_2S$  4) Rhodanaacetylarnstoff (*Ar.* 237, 313). — \*I, 732.
- $C_4H_5O_2NCl$  \*1) Aethylester d. Chloroximidoessigsäure (*B.* 35, 154 *C.* 1902 [1] 411).
- 2) Aethylester d. Chorformylamidoameisensäure (*Ann.* 19, 345). — \*I, 714.
- $C_4H_6NClS$  1)  $\gamma$ -Chlor- $\alpha$ -Rhodanpropan. Sd.  $222$ — $223^{\circ}$  (*Bl.* [3] 15, 1225). — \*I, 722.
- $C_4H_7ONBr_2$  2) Dimethylamid d. Dibromessigsäure. Sm.  $79$ — $80^{\circ}$ ; Sd.  $128^{\circ}_{12}$  (*B.* 35, 1383 *C.* 1902 [1] 1090).
- $C_4H_7ONS_2$  2) Methylester d. Acetylamidodithioameisensäure. Sm.  $119^{\circ}$  (*C.* 1901 [2] 275).
- $C_4H_7ONBr_2$  4) Amid d.  $\beta\gamma$ -Dibrom- $\alpha$ -Oxybuttersäure (*R.* 21, 221 *C.* 1902 [2] 505).
- $C_4H_7O_2NS$  4) 2-Merkapto-5-Oxymethyl-4,5-Dihydrooxazol. Fl.  $HNO_3$ , Ag, (Ag,  $AgNO_3$ ) (*C. r.* 134, 1590 *C.* 1902 [2] 348).
- $C_4H_7O_2NS$  4) Dimethylester d. Amidothioameisensäure-N-Carbonsäure. Sm.  $46^{\circ}$  (*Soc.* 79, 912).
- $C_4H_7N_3ClS$  \*1)  $\beta$ -Chlorallylthioarnstoff. Sm.  $93,5$ — $94,5^{\circ}$  (*Soc.* 79, 554).
- $C_4H_7ONCl$  3)  $\beta$ -Chlor- $\alpha$ -Oximido- $\beta$ -Methylpropan. Sm.  $96$ — $97^{\circ}$  (*C.* 1901 [2] 1201).
- $C_4H_7ONBr$  \*2) Amid d.  $\alpha$ -Bromisobuttersäure. Sd.  $145^{\circ}_{17}$  (*B.* 34, 1837).
- 4)  $\beta$ -Brom- $\beta$ -Nitrosobutan. Sd.  $28^{\circ}_{19}$  (*B.* 35, 3095 *C.* 1902 [2] 1183).
- $C_4H_7OJ_2Hg_2$  1) Aether d. Quecksilber- $\beta$ -Oxyäthyljodid (*B.* 34, 1391).
- $C_4H_7O_2N_2S$  5) Methylester d.  $\alpha$ -Methylthioarnstoff- $\beta$ -Carbonsäure. Sm.  $146^{\circ}$  (*Soc.* 79, 910).
- $C_4H_7Cl_2Br_2Si$  1) Siliciumdibromäthylchlorid (*J.* 1889, 1943). — \*I, 853.
- $C_4H_7O_2ClS$  \*3) Chlorid d.  $\beta$ -Methylpropan- $\alpha$ -Sulfonsäure. Sd.  $79,5^{\circ}_{13}$  (*R.* 21, 80 *C.* 1902 [1] 855).
- $C_4H_{10}O_2N_2J_2$  1) Di(Jodmethylat) d. 3,6-Diketo-hexahydro-1,2,4,5-Tetrazin. Zers. bei  $200^{\circ}$  (*G.* 31 [2] 557 *C.* 1902 [1] 481).
- $C_4H_{11}O_2NS$  4) Amid d.  $\beta$ -Methylpropan- $\alpha$ -Sulfonsäure. Sm.  $14$ — $16^{\circ}$  (*R.* 21, 81 *C.* 1902 [1] 855).

— 4 V —

- $C_4H_7NClBr_2S$  1)  $\beta$ -Chlor- $\beta\gamma$ -Dibrompropylsenföhl. Fl. (*Soc.* 79, 560).
- $C_4H_7ONClS$  1) Verbindung (aus Essigsäurechlorid und Thioessigsäureamid) (*J. pr.* [2] 66, 46 *C.* 1902 [2] 569).

**C<sub>5</sub>-Gruppe.**

- $C_5H_6$  \*1) R-Penten. K. ( $HgCl_2$ ) (*B.* 34, 68, 2938).
- $C_5H_8$  \*4)  $\alpha$ -Pentin (Propylacetylen) (*C.* 1901 [1] 832).
- \*7)  $\alpha\gamma$ -Pentadien (Piperylen) (*A.* 319, 226 *C.* 1902 [1] 109).
- $C_5H_{10}$  \*4)  $\gamma$ -Methyl- $\alpha$ -Buten (*C.* 1898 [2] 472; 1901 [1] 1195).
- \*5) Trimethyläthylen (*C. r.* 134, 1129 *C.* 1902 [2] 17).
- \*7) Methyl-R-Tetramethylen. Sd.  $35$ — $40^{\circ}$  (*A.* 324, 26 *C.* 1902 [2] 896).
- $C_5H_{12}$  \*2)  $\beta$ -Methylbutan (*M.* 23, 777 *C.* 1902 [2] 1093).

— 5 II —

- $C_5H_7O_2$  \*4) Furfurol (*J. pr.* [2] 66, 53 *C.* 1902 [2] 520).
- $C_5H_7O_4$  \*1) Furan-2-Carbonsäure. Sm.  $133^{\circ}$ . Ca, Ba, Pb +  $H_2O$ , Cu +  $3H_2O$ , Ag, Phenylhydrazinsalz (*C. r.* 133, 167; *Soc.* 79, 515; *C.* 1902 [1] 112).





- $C_6H_4O_3$  \*2) Isobrenzschleimsäure. Sm. 91°.  $NH_4$ , Na, K, Ca +  $3H_2O$ , Ba +  $5H_2O$ , Mg, Zn, Cd, Mn, Pb, Cu, Ag (C. r. 133, 167).
- $C_6H_5N$  \*1) Pyridin. 3 +  $TiCl_3$ , +  $TiCl_3$ , (3HCl, 2TiCl<sub>3</sub>), (2HCl, AgCl), (3HJ, 2TiI<sub>3</sub>). 3 + 2BiCl<sub>3</sub>, (2HCl, 2BiCl<sub>3</sub>), + BiJ<sub>3</sub>, (HCl, BiJ<sub>3</sub>) Trisulfimid-silberverbindung. (HCl, MnCl<sub>2</sub>), (3HCl, SnCl<sub>2</sub>), (3HBr, SbBr<sub>3</sub>) (B. 34, 418, 3443; C. 1901 [2] 83; 1902 [1] 4, 264, 1165; B. 35, 664 C. 1902 [1] 726; B. 35, 1111 C. 1902 [1] 937; B. 35, 1954 C. 1902 [2] 127; Soc. 81, 451 C. 1902 [1] 761; B. 35, 2419 C. 1902 [2] 434; B. 35, 2769 C. 1902 [2] 980).
- $C_6H_5N_5$  \*1) Adenin (H. 32, 69; H. 35, 159 C. 1902 [1] 1240).  
 2) 2-Amidopurin +  $H_2O$ . Pikrat (B. 34, 1177).  
 3) 7-Methyl-1,2,3,4,6-Benzpentazol (6-Methyl-4,5-Azimidopyrimidin). Sm. 174° (B. 34, 1249).
- $C_6H_6O_2$  \*1) 2-Oxymethylfuran. Sd. 169—171° (B. 35, 1851 C. 1902 [2] 64; B. 35 1855 C. 1902 [2] 65).  
 \*2) 1,2-Diketo-R-Pentamethylen. Sm. 55—56° (B. 35, 3208 C. 1902 [2] 1249).  
 \*7) Lakton d.  $\beta$ -Oxy- $\alpha$ -Buten- $\delta$ -Carbonsäure ( $\delta^4$ -Angelilalakton). Sd. 89°<sub>15</sub>. (A. 319, 191 C. 1902 [1] 106).  
 \*8) Lakton d.  $\beta$ -Oxy- $\beta$ -Buten- $\delta$ -Carbonsäure. Sd. 55—56°<sub>12</sub>. (A. 319, 184 C. 1902 [1] 105).  
 12)  $\alpha\gamma$ -Butadien- $\alpha$ -Carbonsäure ( $\beta$ -Vinylakrylsäure). Sm. 80°. Ca, Ba, Zn, Ag (B. 35, 1136 C. 1902 [1] 983).  
 13) polym.  $\alpha\gamma$ -Butadien- $\alpha$ -Carbonsäure =  $(C_6H_6O_2)_x$ . Zers. oberhalb 300° (B. 35, 1142 C. 1902 [1] 984).
- $C_6H_6O_3$  6)  $\beta\gamma\delta$ -Triketopentan. Sd. 65—70°<sub>30</sub> (B. 34, 3052; B. 35, 3310 C. 1902 [2] 1109).
- $C_6H_6O_4$  \*1) 2,4-Dioxy-1,3-Diketo-R-Pentamethylen. Ba +  $\frac{1}{2}H_2O$  (M. 23, 580 C. 1902 [2] 739).  
 \*5) Mesakonsäure. Hg +  $H_2O$  (B. 35, 2580 C. 1902 [2] 570).  
 7) 1-Formaläpfelsäure. Fl. (R. 20, 339).
- $C_6H_6O_5$  8) Lakton d. 1-Oxymethyläpfelsäure (Formaläpfelsäure). Fl. (R. 20, 339).
- $C_6H_6N_2$  \*1) 2-Amidopyridin. (HCl, AuCl<sub>3</sub>) (M. 23, 441 C. 1902 [2] 373).  
 \*3) 4-Amidopyridin. Sm. 154° (M. 22, 114; M. 23, 244 C. 1902 [1] 1367; Ar. 240, 363 C. 1902 [2] 648).  
 \*7) Nitril d. Propan- $\alpha\gamma$ -Dicarbonsäure. Sm. —29° (C. 1901 [2] 807).  
 10) 5-Methyl-1,3-Diazin. Sm. 15°; Sd. 145° (B. 34, 2816).
- $C_6H_6Br_2$  \*1) trans-1,3-Dibrom-2,3-Dihydro-R-Penten. Sd. 72—75°<sub>2</sub> (A. 314, 302).  
 2) cis-1,3-Dibrom-2,3-Dihydro-R-Penten. Sd. 53—54° (A. 314, 303).
- $C_6H_7N_3$  \*3) 6-Amido-4-Methyl-1,3-Diazin. Sm. 195° (B. 34, 1238).
- $C_6H_7N_5$  4) 5-Amido-4-Methyl-1,3-Diazin. Sm. 152—153°; Sd. 260° (B. 34, 1252).  
 1) 2-Amido-1,6-Dihydropurin (Desoxyguanin). Sm. 204° u. Zers. HCl,  $H_2SO_4$ , Acetat, Pikrat (B. 34, 1171).
- $C_6H_8O$  \*5)  $\delta$ -Keto- $\beta$ -Penten (B. 34, 2092).  
 11) Sapogenin (Ar. 240, 67 C. 1902 [1] 483).
- $C_6H_8O_2$  \*1)  $\beta\gamma$ -Diketopentan (B. 34, 2093).  
 \*2) Acetylaceton. 2 +  $Al_2Br_3$ , Fe, La (B. 34, 2584; Am. 27, 255 C. 1902 [1] 1292; A. 323, 13, 26 C. 1902 [2] 782).  
 \*8)  $\beta$ -Buten- $\alpha$ -Carbonsäure. Sd. 188°. Ag (B. 35, 1140 C. 1902 [1] 984; B. 35, 2320 C. 1902 [2] 440).  
 \*10)  $\beta$ -Methylpropen- $\alpha$ -Carbonsäure (C. r. 134, 296 C. 1902 [1] 568).  
 \*14) Lakton d.  $\delta$ -Oxyvaleriansäure. Sd. 218—220° (A. 319, 367 C. 1902 [2] 406).
- $C_6H_8O_3$  \*7)  $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd. 224°<sub>34</sub> (C. 1901 [1] 96).  
 \*9)  $\alpha$ -Keto- $\beta$ -Methylpropan- $\alpha$ -Carbonsäure. Sm. 31°; Sd. 65—67°<sub>10</sub> (C. 1901 [1] 726).
- $C_6H_8O_4$  \*21) Aethylester d.  $\beta$ -Oxyakrylsäure. Na, Cu (A. 316, 27).  
 \*5) Brenzweinsäure. Sm. 117—118° (A. 317, 22).  
 \*14) Diacetat d. Dioxymethan. Sd. 170° (Bl. [3] 27, 868 C. 1902 [2] 934).  
 16)  $\gamma\gamma$ -Dioxy- $\beta\delta$ -Diketopentan. Sm. 30—52° (B. 34, 3052).  
 17)  $\gamma$ -Lakton d.  $\alpha\beta\gamma$ -Trioxyvaleriansäure Sm. 100° (A. 319, 194 C. 1902 [1] 106).

- $C_5H_8O_4$  18) Lakton d. Methyltetronsäure. Sm. 120—121° (*B.* 35, 2365 *C.* 1902 [2] 511).
- $C_5H_8O_3$  \*3)  $\gamma$ -Oxypropan- $\alpha\alpha$ -Dicarbonsäure.  $Ag_2$  (*B.* 34, 1977).
- \*8)  $\alpha$ -Oxypropan- $\alpha\gamma$ -Dicarbonsäure.  $Zn + 3H_2O$  (*G.* 32 [1] 405 *C.* 1902 [2] 187; *H.* 35, 230 *C.* 1902 [2] 285).
- $C_5H_8O_7$  \*4) 1-Trioxylutarsäure. Chininsalz, Brucinsalz, Cinchoninsalz (*H.* 35, 59 Ann. *C.* 1902 [1] 988).
- $C_5H_8N_4$  2) 2,5-Diamido-4-Methyl-1,3-Diazin. Sm. 183—184° (*B.* 34, 1252).
- 3) 2,6-Diamido-4-Methyl-1,3-Diazin  $+ H_2O$ . Sm. 183—185°; Sd. 305 bis 308° (*B.* 34, 1253).
- 4) 5,6-Diamido-4-Methyl-1,3-Diazin. Sm. 208—209°; Sd. 325—330° (*B.* 34, 1246).
- 5) 6-Hydrazido-4-Methyl-1,3-Diazin. Sm. 138—140,5° (*B.* 34, 1241).
- $C_5H_8Br_2$  8)  $\beta$ -Dibrom-1-Methyl-R-Tetramethylen. Sd. 191—192°<sub>750</sub> (*C.* 1901 [2] 336).
- $C_5H_8Br_4$  \*2)  $\alpha\beta\gamma\delta$ -Tetrabrompentan (Piperylentetrabromid). Sm. 114° (*A.* 319, 228 *C.* 1902 [1] 109).
- $C_5H_9N$  13) 1,2,3,6-Tetrahydropyridin<sup>p</sup> (HCl,  $AuCl_3$ ) (*B.* 34, 2761).
- $C_5H_9N_3$  2) 2,5,6-Triamido-4-Methyl-1,3-Diazin. Sm. 243° (*B.* 34, 1255).
- $C_5H_9Cl$  \*7)  $\gamma$ -Chlor- $\beta$ -Methyl- $\beta$ -Buten. Sd. 97—98° (*C.* 1901 [1] 996).
- $C_5H_{10}O$  \*17)  $\beta$ -Methylbutan- $\beta\gamma$ -Oxyd. Sd. 73—78° (*C.* 1902 [1] 628; 1902 [2] 20).
- \*23)  $\gamma$ -Keto- $\beta$ -Methylbutan. Sd. 93—94° (*C.* 1902 [2] 19).
- \*25) Aldehyd d. Butan- $\beta$ -Carbonsäure. Sd. 91—92° (*C. r.* 134, 122 *C.* 1902 [1] 412).
- 32)  $\delta$ -Oxy- $\beta$ -Penten. Sd. 120—122°<sub>735</sub> (*C.* 1901 [2] 622).
- 33) 1-Oxymethyl-R-Tetramethylen. Sd. 143—144°<sub>760</sub> (*Soc.* 79, 330 *C.* 1901 [2] 336).
- $C_5H_{10}O_2$  \*11) Valeriansäure. Ca (*Soc.* 81, 357 *C.* 1902 [1] 981).
- \*12) i-Butan- $\beta$ -Carbonsäure. Ba, Ag (*B.* 35, 1849 *C.* 1902 [2] 64).
- \*15) Isovaleriansäure. Ca, Phenylhydrazinsalz (*B.* 34, 180; *Soc.* 81, 360 *C.* 1902 [1] 981).
- 32)  $\gamma$ -Keto- $\beta$ -Oxy- $\beta$ -Methylbutan. Sm. 141—142° (*B.* 35, 3724 *C.* 1902 [2] 1404).
- 33) Aldehyd d.  $\alpha$ -Oxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure (*M.* 22, 66).
- \*7)  $\alpha$ -Methyl- $\beta$ -Oxybuttersäure. K (*C.* 1901 [2] 425).
- \*9)  $\alpha$ -Oxyisovaleriansäure. Sm. 85° (*C.* 1901 [1] 1278).
- \*23) Aethyl ester d.  $\alpha$ -Oxypropionsäure (Antimonpentachlorid-Verbindung) (*B.* 35, 1123 *C.* 1902 [1] 924).
- \*27) Diäthylester d. Kohlensäure.  $+ SbCl_5$  (*B.* 35, 1122 *C.* 1902 [1] 924).
- \*32)  $\alpha$ -Oxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sm. 125° (*M.* 22, 67).
- 36) Aldehyd d.  $\alpha\gamma$ -Dioxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Fl. (*M.* 22, 444).
- 37) Acetat d.  $\alpha\beta$ -Dioxyäthanmonomethyläther. Sd. 144,5—145°<sub>762</sub> (*B.* 35, 3300 *C.* 1902 [2] 1245).
- $C_5H_{10}O_4$  \*1) Methyltetrose (*B.* 35, 2364 *C.* 1902 [2] 511).
- \*8) Monoacetat d.  $\alpha\beta\gamma$ -Trioxypropan. Sd. 158°<sub>16,5</sub> (*C.* 1901 [2] 250).
- \*11) Metasaccharopentose. Sm. 95° (*B.* 35, 3532 *C.* 1902 [2] 1306).
- 12)  $\alpha\gamma$ -Dioxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sm. 163—164° (*M.* 22, 451).
- $C_5H_{10}O_5$  \*1) d-Arabinose (*H.* 35, 31 *C.* 1902 [1] 985; *H.* 35, 41 *C.* 1902 [1] 987; *B.* 35, 1461 *C.* 1902 [1] 1158).
- \*2) l-Arabinose (*H.* 35, 41 *C.* 1902 [1] 987).
- \*3) r-Arabinose (*H.* 35, 41 *C.* 1902 [1] 987).
- \*6) l-Xylose (*H.* 36, 263 *C.* 1902 [2] 1098).
- \*8) d-Xylose (*B.* 35, 1460 *C.* 1902 [1] 1158).
- 11) Apiose (*A.* 318, 128; *A.* 321, 74 *C.* 1902 [1] 912).
- 12) Tragantose (*Soc.* 79, 1182).
- 13)  $\alpha\beta\gamma$ -Trioxylvaleriansäure. Ba (*A.* 319, 194 *C.* 1902 [1] 106).
- 14) Methyltetronsäure. Ba, Brucinsalz  $+ H_2O$  (*B.* 35, 2366 *C.* 1902 [2] 511).
- $C_5H_{10}O_6$  \*2) d-Arabonsäure (*H.* 35, 36 *C.* 1902 [1] 986).
- 7) Apionsäure. Ca, Ba (*A.* 321, 78 *C.* 1902 [1] 912).
- 8) l-Xylonsäure. Brucinsalz, Cinchoninsalz, Morphinsalz (*B.* 35, 1471 *C.* 1902 [1] 1159; *B.* 35, 1473 *C.* 1902 [1] 1160).

- $C_5H_{11}N$  \*13) Hexahydropyridin. Amidosulfons. Salz, (3HCl,  $TiCl_3$ ) (B. 34, 2759; Soc. 79, 922; B. 35, 2770 C. 1902 [2] 980; A. 324, 285 C. 1902 [2] 1506).
- $C_5H_{12}O$  \*3)  $\gamma$ -Oxypentan. Sd. 114—115°<sub>748</sub> (C. 1901 [2] 623).  
\*4) 1- $\alpha$ -Oxy- $\beta$ -Methylbutan. Sd. 128° (131°) (B. 34, 490; C. r. 133, 1222 C. 1902 [1] 298; B. 35, 1601 C. 1902 [1] 1270).  
\*7) Isoamylalkohol (B. 34, 485).
- $C_5H_{12}O_2$  \*7)  $\beta$ -Dioxy- $\beta$ -Methylbutan. Sd. 176—178° (C. 1902 [1] 628).  
\*14) Diäthyläther d. Dioxymethan. Sd. 88—89° (R. 20, 283).  
\*17) Monopropyläther d.  $\alpha$ - $\beta$ -Dioxyäthan. Sd. 152—153°<sub>759</sub> (B. 35, 2301 C. 1902 [2] 1246).
- $C_5H_{12}O_3$  \*5)  $\alpha$ -Oxy- $\beta$ - $\beta$ -Di[Oxymethyl]propan. Sm. 199° (M. 22, 446, 455).  
 $C_5H_{12}O_4$  \*1) Pentaerythrit. Sm. 253° (C. r. 133, 590).  
 $C_5H_{12}S$  \*1) Isoamylmerkaptan (C. 1901 [1] 367; 1902 [1] 4).  
 $C_5H_{14}N$  \*5)  $\gamma$ -Amido- $\beta$ -Methylbutan. Sd. 84—87°. HCl, Oxalat, saures Oxalat (G. 29 [2] 96).  
\*6) Isoamylamin (C. 1902 [1] 3).  
\*15)  $\alpha$ -Aethylamidopropan (Aethylpropylamin). Sd. 80—100°. HCl, (2HCl,  $PtCl_4$ ) (J. pr. [2] 63, 211).

## — 5 III —

- $C_5HNC_4Cl_4$  \*1) 2,3,4,5-Tetrachlorpyridin (G. 32 [1] 512).  
 $C_5H_2N_2Cl_6$  1) 2,6,7,8-Pentachlor-4-Methyl-1,3-Diazin. Sm. 82—83° (B. 35, 1570 C. 1902 [1] 1235).
- $C_5H_2O_3Cl_3$  1) Di[ $\alpha$ - $\beta$ - $\beta$ -Tetrachloräthylester] d. Kohlensäure. Sm. 64°; Sd. 170°<sub>11</sub> (C. 1901 [2] 69).
- $C_5H_3O_2N_3$  \*1) Azid d. Furan-2-Carbonsäure. Sm. 62,5° (J. pr. [2] 65, 32 C. 1902 [1] 460).
- $C_5H_3O_2Cl$  \*2) Chlorid d. Furan-2-Carbonsäure. Sd. 170° (C. r. 134, 1439 C. 1902 [2] 263).
- $C_5H_3O_2Br_2$  \*1) 3,3,5-Tribrom-1,2-Diketopentamethylen. Sm. 155° (B. 35, 3216 C. 1902 [2] 1251).
- $C_5H_3O_2N$  3) 5-Nitrofuran-2-Carbonsäure? Sm. 185°. Anilinsalz (Am. 27, 200 C. 1902 [1] 908; C. r. 135, 506 C. 1902 [2] 1098).
- $C_5H_3N_3Cl_4$  1)  $\beta$ -Tetrachlor- $\beta$ -Amido-4-Methyl-1,3-Diazin. Sm. 225—227° u. Zers. (B. 35, 1570 C. 1902 [1] 1235).
- $C_5H_4ON_4$  \*1) Hypoxanthin (H. 35, 160 C. 1902 [1] 1240).  
\*4) Azid d. Pyrrol-2-Carbonsäure. Sm. 105° u. Zers. (G. 32 [1] 249 C. 1902 [1] 1229).  
5) 2-Oxypurin +  $H_2O$  (B. 34, 1180).
- $C_5H_4O_2N_4$  \*1) Xanthin (H. 35, 160 C. 1902 [1] 1240).
- $C_5H_4O_2N_4$  \*1) Harnsäure (B. 34, 263, 2678; C. 1901 [2] 846; B. 34, 3787 C. 1902 [1] 31; B. 35, 2564 C. 1902 [2] 578).  
\*2) Isoharnsäure (B. 35, 2564 C. 1902 [2] 578).  
C 30,6 — H 2,0 — O 24,5 — N 42,8 — M. G. 196.
- $C_5H_4O_3N_6$  1) Azid d. 4-Oximido-5-Keto-4,5-Dihydropyrazol-3-Methylcarbon-säure. Sm. 97—98° (J. pr. [2] 64, 347).
- $C_5H_4O_3Br_2$  5) Methylester d. Mukobromsäure. Sm. 51° (B. 34, 518).
- $C_5H_4N_4Br_2$  1)  $\beta$ -Dibrom-2-Amidopyridin. Sm. 137° (Ar. 240, 348 C. 1902 [2] 647).  
2)  $\beta$ -Dibrom-3-Amidopyridin. Sm. 148° (Ar. 240, 354 C. 1902 [2] 648).  
3)  $\beta$ -Dibrom-4-Amidopyridin. Sm. 167° (Ar. 240, 362 C. 1902 [2] 648).
- $C_5H_5ON_5$  \*2) Guanin (H. 35, 158 C. 1902 [1] 1240).
- $C_5H_5O_2Cl$  6) 3-Chlor-1,2-Diketo-R-Pentamethylen. Sm. 139° (137°) (B. 22, 1261; B. 35, 3213 C. 1902 [2] 1250). — I, 1021.
- $C_5H_5O_2Br$  3) 3-Brom-1,2-Diketo-R-Pentamethylen. Sm. 155° (B. 35, 3216 C. 1902 [2] 1251).
- $C_5H_5O_3N$  \*1) Pyromekazonsäure (C. 1902 [1] 1366).
- $C_5H_5O_3N$  \*6) Methylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylsäure. Sm. 136—137°. Ba +  $H_2O$ , Cu +  $2H_2O$ , Ag (Bl. [3] 25, 29).  
7) 2-Oximidooxymethylfuran (Furfurhydroxamsäure). Sm. 128° (124°) (G. 31 [2] 90; Soc. 79, 847).  
8) 5-Methylisoxazol-3-Carbonsäure. Sm. 173—174° u. Zers. (A. 317, 19).
- $C_5H_5O_4N$  \*2) Oxyppromekazonsäure (C. 1902 [1] 1365).



- $C_5H_5O_4N_3$  \*2) 5-Nitro-2,4-Diketo-1-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin +  $H_2O$  (A. 323, 163 C. 1902 [2] 889).
- 10) 5-Nitro-2,4-Diketo-3-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 263° u. Zers. (A. 323, 174 C. 1902 [2] 890).
- $C_5H_5O_4N_5$  \*1) Diazoisonitrosomethyluracil (A. 323, 279 C. 1902 [2] 1101).
- $C_5H_5O_4P$  1) Isopyromucylphosphat (C. r. 134, 1440 C. 1902 [2] 263).
- $C_5H_5N_3Br$  2) 2-Brom-2-Amidopyridin. Sm. 106—107° (Ar. 240, 349 C. 1902 [2] 647).
- $C_5H_6ON_2$  \*6) Amid d. Pyrrol-2-Carbonsäure. Sm. 176—177° (G. 32 [1] 250 C. 1902 [1] 1229).
- $C_5H_6ON_4$  C 43,5 — H 4,3 — O 11,6 — N 40,6 — M. G. 138.
- 1) 2-Keto-1,2,3,6-Tetrahydropurin +  $H_2O$  (Desoxyxanthin). Sm. 250° u. Zers. Pikrat (B. 34, 1166).
- $C_5H_6O_2N_2$  \*3) 2,4-Diketo-6-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 320° u. Zers. (G. 31 [1] 518; B. 34, 3757; A. 323, 186 C. 1902 [2] 890).
- \*5) 2,4-Diketo-5-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin (Thymin) (C. 1901 [1] 443; H. 32, 244; B. 34, 3758; H. 34, 116 C. 1902 [1] 57).
- \*9) Hydrazid d. Furan-2-Carbonsäure. Sm. 80°; Sd. 279°. HCl, Na (J. pr. [2] 65, 25 C. 1902 [1] 459).
- 12) Methylester d.  $\alpha$ -Can- $\beta$ -Amidoakrylsäure. Sm. 128° (Bl. [3] 25, 40). C 39,0 — H 3,9 — O 20,8 — N 36,3 — M. G. 154.
- 1) 6-Nitramido-4-Methyl-1,3-Diazin. Zers. bei 190—200° (B. 34, 1240).
- $C_5H_6O_2Br_2$  5) Methylester d. cis- $\alpha\beta$ -Dibromcrotonsäure. Sd. 94°<sub>11</sub> (B. 34, 4225 C. 1902 [1] 176).
- 6) Methylester d. trans- $\alpha\beta$ -Dibromcrotonsäure. Sd. 102—104°<sub>11</sub> (B. 34, 4225 C. 1902 [1] 176).
- $C_5H_6O_2Br_4$  1)  $\alpha\beta\gamma\delta$ -Tetrabromvaleriansäure. Sm. 160° (B. 35, 1139 C. 1902 [1] 983).
- $C_5H_6O_3N_2$  \*11) Aethylester d. Oximidocyanessigsäure. Na (Bl. [3] 27, 1011 C. 1902 [2] 1412).
- 17) Glykoleurein. Sm. 147° (R. 7, 247). — I, 1315.
- 18) 5-Oxy-2,4-Diketo-6-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin (A. 323, 189 C. 1902 [2] 891).
- 19) Methylester d. Oximidocyanessigmethyläthersäure. Fl. (Bl. [3] 27, 1015 C. 1902 [2] 1413).
- $C_5H_6O_3N_4$  4) 5-Oximido-4-Imido-2,6-Diketo-1-Methylhexahydro-1,3-Diazin (C. 1901 [1] 548).
- $C_5H_6O_4N_2$  5) Säure (aus Carboxäthylglycylglycinester). Guanidinsalz (B. 35, 1100 C. 1902 [1] 910).
- $C_5H_6O_4Br_2$  \*6) i- $\alpha\gamma$ -Dibrompropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 169—170° (A. 314, 309; G. 32 [1] 408 C. 1902 [2] 187).
- \*8) Dimethylester d. Dibrommalonsäure. Sm. 63—65° (B. 35, 1376 C. 1902 [1] 1089; B. 35, 1819 C. 1902 [2] 25).
- 9) r- $\alpha\gamma$ -Dibrompropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 142—143° u. Zers. (A. 314, 305).
- $C_5H_6O_4J_2$  1) Dimethylester d. Dijodmalonsäure. Sm. 79—80° (B. 35, 1378 C. 1902 [1] 1089).
- $C_5H_6O_5Hg$  1) Merkuritakonsäure. Hg +  $3H_2O$  (B. 35, 2578 C. 1902 [2] 570).
- $C_5H_6N_3Cl$  3) 2-Chlor-5-Amido-4-Methyl-1,3-Diazin. Sm. 92° (B. 34, 1251).
- 4) 5-Chlor-6-Amido-4-Methyl-1,3-Diazin. Sm. 197—198° (B. 34, 1235).
- $C_5H_6N_3Br$  1) 5-Brom-6-Amido-4-Methyl-1,3-Diazin. Sm. 197° (B. 34, 1239).
- $C_5H_7ON$  \*10) Nitril d.  $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd. 145—146°. Na (C. 1901 [1] 96).
- \*12) Nitril d.  $\beta$ -Ketobutan- $\alpha$ -Carbonsäure. Sd. 164° (C. 1901 [1] 96).
- 13) Nitril d.  $\alpha$ -Oxy- $\beta$ -Buten- $\alpha$ -Carbonsäure. Sd. 132—134°<sub>15</sub> (A. 299, 34; B. 29, 2583). — \*I, 814.
- $C_5H_7ON_3$  \*5) Hydrazid d. Pyrrol-2-Carbonsäure. Sm. 231—232° (G. 32 [1] 247 C. 1902 [1] 1229).
- $C_5H_7OBr$  1)  $\gamma$ -Brom- $\delta$ -Keto- $\beta$ -Penten. Sd. 68°<sub>18</sub> (B. 34, 2093).
- $C_5H_7O_2N$  \*8) Imid d. Propan- $\alpha\gamma$ -Dicarbonsäure (C. 1902 [1] 711).
- \*10)  $\alpha$ -Cyanbuttersäure. Ca (C. 1901 [1] 675).
- $C_5H_7O_2N_3$  10)  $\alpha$ -Cyanacetyl- $\alpha$ -Methylharnstoff. Sm. 205° (C. 1901 [1] 548).
- 11) 4-Imido-2,6-Diketo-1-Methylhexahydro-1,3-Diazin (C. 1901 [1] 548).
- $C_5H_7O_2N_5$  C 35,5 — H 4,1 — O 18,9 — N 41,4 — M. G. 169.

- $C_5H_7O_2N_3$  1) 5-Nitro-2,6-Diamido-4-Methyl-1,3-Diazin. Sm. 232—233° (B. 34, 1254).
- $C_5H_7O_2N_3$  9) 5-Methylamido-2,4,6-Triketohexahydro-1,3-Diazin (7-Methyluramil) (B. 30, 561). — \*I, 765.
- $C_5H_7O_2Cl$  5)  $\gamma$ -Chlor- $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd. 141°<sub>45</sub> (C. 1901 [1] 96).
- $C_5H_7O_2Br$  3)  $\gamma$ -Brom- $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd. 150°<sub>45</sub> (C. 1901 [1] 96).
- $C_5H_7O_2Br$  8) Dimethylester d. Brommalonsäure. Sd. 215—225° (B. 35, 1816 C. 1902 [2] 24).
- $C_5H_7O_{15}N_5$  2) Pentanitrat d. d-Arabit (C. r. 133, 641).
- $C_5H_7NS$  4)  $\alpha$ -Isosulfocyan- $\beta$ -Buten (Isocrotonylsenföhl). Sd. 83—85°<sub>50</sub> (C. 1899 [2] 90). — \*I, 725.
- $C_5H_7N_4Cl$  5) isom. Crotonylsenföhl. Sd. 174° u. Zers. (R. 20, 239).
- $C_5H_7N_4Cl$  2) 2-Chlor-5,6-Diamido-4-Methyl-1,3-Diazin. Sm. 250° (B. 34, 1245).
- $C_5H_7N_4Br$  1) 5-Brom-2,6-Diamido-4-Methyl-1,3-Diazin. Sm. 188—189° u. Zers. (B. 35, 1570 C. 1902 [1] 1235).
- $C_5H_3ON_2$  9) 4-Oxy-3,5-Dimethylpyrazol. Sm. 173,5° (B. 35, 3313 C. 1902 [2] 1109).
- $C_5H_3ON_2$  10) Nitril d.  $\alpha$ -Oximido- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sm. 92—93° (C. 1901 [2] 1201).
- $C_5H_3OCl_2$  5) Chlorid d.  $\alpha$ -Chlorvaleriansäure. Sd. 155—157°<sub>783</sub> (C. 1901 [1] 94).
- $C_5H_3OCl_2$  6) Chlorid d.  $\alpha$ -Chlorisovaleriansäure. Sd. 148—149°<sub>759</sub> (C. 1901 [1] 94).
- $C_5H_3OCl_2$  7) Chlorid d.  $\beta$ -Chlorisovaleriansäure. Sd. 104—104,5°<sub>76</sub> (B. 34, 4056 C. 1902 [1] 177).
- $C_5H_3OCl_2$  8) Chlorid d.  $\alpha$ -Chlor- $\alpha$ -Methylbuttersäure. Sd. 143—144°<sub>749</sub> (C. 1901 [1] 95).
- $C_5H_3OBr_2$  4)  $\beta$ -Dibrom- $\gamma$ -Ketopentane. Sd. 193—195°<sub>732</sub> (B. 34, 1771).
- $C_5H_3O_2N_2$  \* 5) 2,6-Diketo-4-Methylhexahydro-1,3-Diazin (4-Methylhydrouracil). Sm. 219—220° (B. 34, 3754; B. 34, 4129 C. 1902 [1] 267).
- $C_5H_3O_2N_2$  18) 2,4-Diketo-5-Methylhexahydro-1,3-Diazin (Hydrothymin). Sm. 264 bis 265° (B. 34, 3757).
- $C_5H_3O_2N_4$  \* 5) 3,6-Diketo-1,2-Isopropylidenhexahydro-1,2,4,5-Tetrazin (Acetop-Urazin). Sm. 203—204° (G. 31 [2] 559 C. 1902 [1] 481).
- $C_5H_3O_2N_4$  6) Puron. Zers. oberh. 250° (B. 34, 268).
- $C_5H_3O_2N_4$  7) Isopuron. Zers. bei 240°. HNO<sub>3</sub>, Pikrat (B. 34, 270).
- $C_5H_3O_2N_4$  8) Hydrazid d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 180° u. Zers. (J. pr. [2] 64, 343).
- $C_5H_3O_2Br_2$  3)  $\beta$ -Dibrombutan- $\alpha$ -Carbonsäure. Sm. 65° (B. 35, 2320 C. 1902 [2] 440).
- $C_5H_3O_2Br_2$  13) cis-3,5-Dibrom-1,2-Dioxy-R-Pentamethylen. Sm. 76—77° (A. 314, 307).
- $C_5H_3O_2Br_2$  14) trans-3,5-Dibrom-1,2-Dioxy-R-Pentamethylen. Sm. 75,5° (A. 314, 303).
- $C_6H_5O_6N_4$  \* 1) Pyvuril (C. r. 133, 587).
- $C_6H_5O_6N_4$  5) Tetrahydroharnsäure. Sm. 212—213° u. Zers. (B. 34, 274, 1181).
- $C_6H_5O_4N_2$  5) Diacetylderivat d. Oximidoamidooxyharnstoff (D. d. Isooxyharnstoff). Sm. 105—106° (G. 31 [2] 341 C. 1902 [1] 32).
- $C_6H_5O_6N_2$  5) Carboxylamidoacetylamidoessigsäure (Glycylglycincarbonsäure). Sm. 208° u. Zers. (B. 35, 1097 C. 1902 [1] 910).
- $C_6H_5O_{12}N_4$  C 19,0 — H 2,5 — O 60,8 — N 17,7 — M. G. 316.
- $C_6H_5O_{12}N_4$  1) Tetranitrat d. Pentaerythrit. Sm. 138—140° (C. r. 133, 590).
- $C_6H_5NCl$  \* 1) Nitril d.  $\alpha$ -Chlorvaleriansäure. Sd. 161° (C. 1901 [1] 94).
- $C_6H_5NCl$  \* 2) Nitril d.  $\alpha$ -Chlorisovaleriansäure. Sd. 154—155°<sub>750</sub> (C. 1901 [1] 94).
- $C_6H_5NCl$  3) Nitril d.  $\alpha$ -Chlor- $\alpha$ -Methylbuttersäure. Sd. 120—135°<sub>762</sub> u. Zers. (C. 1901 [1] 94).
- $C_6H_5NBr$  1) Nitril d.  $\alpha$ -Bromisovaleriansäure. Sd. 175—180°<sub>754</sub> u. Zers. (C. 1901 [1] 94).
- $C_6H_5ON$  25) isom. Nitril d.  $\alpha$ -Oxypropionäthyläthersäure. Sd. 129—130°<sub>760</sub> (A. ch. [7] 12, 237). — \*I, 812.
- $C_6H_5ON$  4) 6-Amido-4-Keto-2-Methyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 298—300° u. Zers. (D.R.P. 135 371 C. 1902 [2] 1229).
- $C_6H_5ON$  5) Azid d. Isovaleriansäure (J. pr. [2] 64, 415 C. 1902 [1] 23).

- $C_5H_9ON_4$  1) Porphyrexid  $= (C_5H_9ON_4)_x$ . Sm. 157° u. Zers.  $HNO_3$ ,  $Na + H_2O$  (B. 34, 1880, 2354).
- $C_5H_9OCl$  \*10) Chlorid d. Valeriansäure.  $+ SbCl_5$  (B. 35, 1117 C. 1902 [1] 923).
- $C_5H_9OBr$  6)  $\beta$ -Brom- $\gamma$ -Ketopentan. Sd. 157—158°<sub>732</sub> (B. 34, 1771).
- $C_5H_9O_2N$  \*4)  $\gamma$ -Oximido- $\beta$ -Ketopentan (Aethylisonitrosoacetone) (B. 35, 218).
- \*19)  $\gamma$ -Tetrahydropyrrol-2-Carbonsäure. Sm. 205°.  $Cu + 2H_2O$  (B. 34, 459; H. 33, 412; H. 35, 75 C. 1902 [1] 1018; H. 35, 227 C. 1902 [2] 284; H. 36, 272 C. 1902 [2] 1134).
- 20) 1-Tetrahydropyrrol-2-Carbonsäure. Sm. 206—209°.  $Cu + 2H_2O$  (H. 33, 164; H. 35, 75 C. 1902 [1] 1018).
- 21) Lakton d.  $\alpha$ -Amido- $\gamma$ -Oxyvaleriansäure. Sd. 123—125°<sub>13</sub>.  $HCl$  (B. 35, 3798 C. 1902 [2] 1415).
- 22) Aldehyd d.  $\gamma$ -Oximidobuttermethyläthersäure. Sd. 67°<sub>10</sub> (B. 34, 1494).
- $C_5H_9O_2N_3$  3)  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\alpha$ -Buten (Diacetylmonosemicarbazon). Sm. 234 bis 235° (B. 35, 348 C. 1902 [1] 568).
- $C_5H_9O_2Cl$  \*1)  $\alpha$ -Chlorvaleriansäure. Sm. —15°; Sd. 222°<sub>763</sub> (C. 1901 [1] 94).
- \*2)  $\delta$ -Chlorvaleriansäure. Sm. 18°; Sd. 141—149°<sub>12</sub> u. Zers. (A. 319, 364 C. 1902 [1] 406; A. 319, 374 C. 1902 [1] 408).
- \*3)  $\alpha$ -Chlorisovaleriansäure. Sm. 16°; Sd. 210—212°<sub>756</sub> (C. 1901 [1] 94).
- 16)  $\alpha$ -Chlor- $\alpha$ -Methylbuttersäure. Sd. 200—205°<sub>754</sub> u. Zers. (C. 1901 [1] 95).
- 17) Chlormethylester d. Buttersäure. Sd. 150°<sub>745</sub> (Bl. [3] 27, 871 C. 1902 [2] 934).
- 18) Chlormethylester d. Isobuttersäure. Sd. 138—140°<sub>745</sub> (Bl. [3] 27, 871 C. 1902 [2] 934).
- 19)  $\beta$ -Chlorpropylester d. Essigsäure. Sd. 158—159° (C. 1902 [2] 1094).
- 20)  $\beta$ -Chlorisopropylester d. Essigsäure. Sd. 149—150° (C. 1902 [2] 1094).
- 21) Methyläthylcarbinolester d. Chlorameisensäure. Sd. 121—122° (C. 1901 [1] 1302).
- $C_5H_9O_2Cl_3$  2) Monopropyläther d.  $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Dioxyäthan. Sd. 120—122° (G. 31 [1] 86).
- 3) Monoisopropyläther d.  $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Dioxyäthan. Sm. 47°; Sd. 108° (G. 31 [1] 88).
- $C_5H_9O_2Br$  \*1)  $\alpha$ -Bromvaleriansäure. Sd. 67°<sub>10</sub> (B. 35, 404 C. 1902 [1] 575).
- 18)  $\delta$ -Brombutan- $\alpha$ -Carbonsäure ( $\delta$ -Bromvaleriansäure). Sm. 39—40° (A. 319, 367 C. 1902 [1] 407; A. 319, 388 C. 1902 [1] 408).
- $C_5H_9O_2J$  8)  $\delta$ -Jodvaleriansäure. Sm. 56—57° (A. 319, 364 C. 1902 [1] 406).
- 9)  $\alpha$ -Jodisovaleriansäure. Sm. 52°.  $Na + xH_2O$ ,  $Ba + 4H_2O$ ,  $Zn + xH_2O$ ,  $Cu + 2H_2O$  (C. 1901 [1] 665).
- $C_5H_9O_3N$  21)  $\alpha$ -Oximidoisovaleriansäure. Sm. 163—165° (C. 1901 [1] 726).
- 22)  $\beta$ -Oxytetrahydropyrrol-2-Carbonsäure. Zers. bei 270° (B. 35, 2660 C. 1902 [2] 598).
- $C_5H_9O_3N_3$  5) Triamid d. Aethan- $\alpha\alpha\beta$ -Tricarbonsäure. Sm. 225° (J. pr. [2] 66, 12 C. 1902 [2] 508).
- $C_5H_9O_3Cl$  15)  $\beta$ -Chloräthylidenäther d.  $\alpha\beta\gamma$ -Trioxypropan. Sd. 235—238° (Bl. [3] 25, 583).
- $C_5H_9O_4N$  \*2)  $\delta$ -Glutaminsäure (C. r. 133, 1231 C. 1902 [1] 335).
- 23)  $\alpha$ -Amidopropan- $\alpha\alpha$ -Dicarbonsäure  $+ H_2O$ . Sm. 122° u. Zers. Ag (B. 35, 2553 C. 1902 [2] 572).
- $C_5H_9O_4N_3$  4) C-Amid d. Carboxylamidoacetylamidoessigsäure (Glycylglycinamid-carbonsäure). Sm. 195° u. Zers. (B. 35, 1098 C. 1902 [1] 910).
- $C_5H_9O_6N_3$  1)  $\beta\gamma\gamma$ -Trinitro- $\beta$ -Methylbutan. Sm. 203° u. Zers. (B. 35, 3733 C. 1902 [2] 1405).
- $C_5H_9NS$  9) d-sec. Butylsenföl (C. 1901 [2] 29).
- 10)  $\beta$ -Rhodan- $\beta$ -Methylpropan (tert. Butylrhodanid). Fl. (C. 1902 [2] 577).
- $C_5H_9ClBr_2$  \*2)  $\gamma$ -Chlor- $\beta\gamma$ -Dibrom- $\beta$ -Methylbutan. Sm. 197° (C. 1901 [1] 996).
- $C_5H_{10}ON_4$  4) Porphyrexin  $+ 3H_2O$ . Sm. 248—250° u. Zers.  $HCl$ , Oxalat (B. 34, 1872, 2354).
- $C_5H_{10}OF_2$  1) Propyläther d.  $\beta\beta$ -Difluor- $\alpha$ -Oxyäthan. Sd. 89° (C. 1901 [2] 805).
- $C_5H_{10}O_2N_2$  \*3)  $\beta\gamma$ -Dioximidopentan. Sm. 172—173° (G. 31 [1] 404; B. 34, 3978 C. 1902 [1] 192).

- $C_5H_{10}O_2N_2$  \*11) Amid d. Propan- $\alpha\alpha$ -Dicarbonsäure. Sm. 216° (*B.* 35, 849 *C.* 1902 [1] 745).
- \*14) Amid d. Propan- $\beta\beta$ -Dicarbonsäure. Sm. 261° (*B.* 35, 855 *C.* 1902 [1] 746).
- $C_5H_{10}O_3N_2$  \*3)  $\gamma$ -Nitroso- $\gamma$ -Nitropentan. Sm. 63,5° (*B.* 35, 3097 *C.* 1902 [2] 1183).
- 18) Trimethyläthylennitrosit. Fl. (*B.* 35, 2327 *C.* 1902 [2] 431; *B.* 35, 2978 *C.* 1902 [2] 1105).
- 19) Trimethyläthylennitrosit. Sm. 125–126° u. Zers. (*B.* 35, 2333 *C.* 1902 [2] 432; *B.* 35, 2978 *C.* 1902 [2] 1105; *B.* 35, 3737 *C.* 1902 [2] 1405).
- $C_5H_{10}O_4N_2$  \*5)  $\beta$ -Niträt d.  $\gamma$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylbutan. Sm. 96–97° (*C.* 1901 [1] 995).
- 10) Niträt d.  $\gamma$ -Nitroso- $\beta$ -Oxy- $\beta$ -Methylbutan (Trimethyläthylennitrosat). Fl. (*B.* 35, 2338 *C.* 1902 [2] 433).
- $C_5H_{10}O_4N_4$  C 31,6 — H 5,2 — O 33,7 — N 29,5 — M. G. 190.
- 1)  $\alpha\alpha$ -Diureidopropionsäure (Homoalantosäure). Zers. bei 155°.  $K + H_2O$  (*C. r.* 133, 587).
- $C_5H_{10}N_2S$  7) isom. Crotonylthioharnstoff. Sm. 64° (*R.* 20, 240).
- $C_5H_{11}ON$  \*8)  $\delta$ -Oximido- $\beta$ -Methylbutan (*C.* 1901 [2] 260).
- \*10) 4-Methylmorpholin (*C.* 1901 [1] 1074).
- \*16) Propylamid d. Essigsäure. Sd. 222°<sub>760</sub>. HCl, Na (*Soc.* 79, 402).
- 21)  $\beta$ -Nitroso- $\beta$ -Methylbutan. Sm. 43–43,5° (*J. pr.* [2] 63, 219).
- 22) N-Aethylisocetonoxim. + NaJ (*Soc.* 79, 633).
- 23) Aethyläther d.  $\beta$ -Oximidopropan. Sd. 91,5–92,5°. (2HCl,  $PtCl_4$ ) (*Soc.* 79, 633).
- 24) Propyläther d. Oximidoäthan. Sd. 101–102° (*Soc.* 79, 637).
- 25) 2,3-Dimethyltetrahydrooxazol. Sd. 109°<sub>758</sub>. Pikrat (*B.* 34, 3487).
- 26) Methyläthylamid d. Essigsäure. Sd. 180° (*Soc.* 79, 407).
- $C_5H_{11}ON_3$  \*1)  $\beta$ -Semicarbazonbutan. Sm. 135–136° (*A.* 321, 118 *C.* 1902 [1] 980).
- $C_5H_{11}OCl$  7)  $\alpha$ -Chlor- $\beta$ -Oxy- $\beta$ -Methylbutan. Sd. 149–151° (*C. r.* 134, 775 *C.* 1902 [1] 1093).
- 8)  $\gamma$ -Chlor- $\beta$ -Oxy- $\beta$ -Methylbutan. Sd. 141–142° (*C.* 1901 [1] 996).
- $C_5H_{11}O_2N$  \*3)  $\delta$ -Nitro- $\beta$ -Methylbutan. Na (*C.* 1902 [1] 400).
- \*9)  $\alpha$ -Amidovaleriansäure. Sm. 291,5° u. Zers. Cu (*H.* 33, 159; *B.* 35, 404 *C.* 1902 [1] 575; *H.* 35, 300 *C.* 1902 [2] 263; *B.* 35, 3800 *C.* 1902 [2] 1415).
- \*12)  $\alpha$ -Amidoisovaleriansäure. Sm. 298° u. Zers. HCl (*B.* 35, 401 *C.* 1902 [1] 574; *H.* 36, 469 *C.* 1902 [2] 1425).
- \*13)  $\beta$ -Amidoisovaleriansäure. Sm. 217° (*B.* 35, 408 *C.* 1902 [1] 575).
- \*18) Betain d. Trimethylamidoessigsäure. (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ), HJ, 2 + KJ (*B.* 35, 597, 603 *C.* 1902 [1] 572; *B.* 35, 1593 *C.* 1902 [1] 1275; *B.* 35, 2700 *C.* 1902 [2] 633).
- \*24) Aethylester d.  $\alpha$ -Amidopropionsäure. Sd. 48°<sub>11</sub>. Pikrat (*B.* 34, 442).
- \*26) Aethylester d. Aethylamidoameisensäure (Aethylurethan). Sd. 174° bis 176° (*C.* 1901 [2] 260; *C.* 1902 [1] 4; *J. pr.* [2] 64, 409 *C.* 1902 [1] 22).
- 39)  $\beta$ -Nitropentan (*J. pr.* [2] 63, 224).
- 40)  $\gamma$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylbutan. Sm. 82–84° (*C.* 1901 [1] 995).
- 41)  $\delta$ -Oximido- $\delta$ -Oxy- $\beta$ -Methylbutan (Isovalerhydroxamsäure). Sm. 73,5° bis 76°. Cu (*B.* 34, 2032; *G.* 31 [2] 93; *B.* 35, 50 *C.* 1902 [1] 401).
- 42)  $\alpha$ -Amido- $\alpha$ -Methylbuttersäure. Sm. 307,5°. Cu + 3H<sub>2</sub>O (*B.* 35, 406 *C.* 1902 [1] 575).
- 43) Methyläthylamidoessigsäure. Cu + 3H<sub>2</sub>O (*B.* 35, 607 *C.* 1902 [1] 573).
- 44) Methylester d. Dimethylamidoessigsäure. Sd. 135° (*B.* 35, 594 *C.* 1902 [1] 571).
- 45) Aethylester d. Methylamidoessigsäure. Sd. 43°<sub>16</sub> (*B.* 34, 452).
- $C_5H_{11}O_2N_3$  7)  $\gamma$ -Guanidinbuttersäure. HCl (*H.* 32, 415).
- $C_5H_{11}O_3N$  13)  $\alpha\gamma$ -Dioxy- $\beta$ -Oximidomethyl- $\beta$ -Methylpropan. Fl. (*M.* 22, 447).
- 14)  $\alpha$ -Amido- $\gamma$ -Oxyvaleriansäure. Sm. 212° u. Zers. Cu (*C.* 1902 [1] 763; *B.* 35, 3797 *C.* 1902 [2] 1415).
- 15) Aethylester d.  $\beta$ -Amido- $\alpha$ -Oxypropionsäure. Sm. 75–76° (*C.* 1902 [1] 763; *B.* 35, 3796 *C.* 1902 [2] 1415).

- $C_5H_{11}O_3N$  16) Aethylester d.  $\beta$ -Oxyäthylamidoameisensäure. Sd. 163°<sub>16</sub> (*H.* 21, 48 *C.* 1902 [1] 975).
- $C_5H_{11}O_3Cl$  17) Verbindung (aus Amylenhydrat). Fl. (*C.* 1901 [1] 995).
- $C_5H_{11}NS_2$  \*1) Chlormethyläther-Aethyläther d. Di(Oxymethyl)äther. Sd. oberh. 47°<sub>30</sub> (*R.* 20, 285).
- \*1) Dimethyläther d. Aethylimidodimerkaptomethan. Sd. 201° (HCl, HgCl<sub>2</sub>), (HCl, 2HgCl<sub>2</sub>), (HCl, 3HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), (HJ, HgJ<sub>2</sub>), Pikrat (*Bl.* [3] 27, 61 *C.* 1902 [1] 577; *C. r.* 134, 110 *C.* 1902 [2] 413).
- \*5) Methyläthyläther d. Methylimidodimerkaptomethan. Sd. 205—207° (HCl, 2HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), HJ, (HJ, HgJ<sub>2</sub>), Pikrat (*Bl.* [3] 27, 586 *C.* 1902 [2] 349).
- \*6) Aethylester d. Dimethylamidodithioameisensäure. Sm. 2°; Sd. 252° (*Bl.* [3] 27, 591 *C.* 1902 [2] 349; *C. r.* 134, 715 *C.* 1902 [1] 977).
- $C_5H_{12}ON_2$  \*12) s-Diäthylharnstoff. Sm. 108°; Sd. 150°<sub>36</sub> (*J. pr.* [2] 64, 410 *C.* 1902 [1] 22).
- \*15) Amid d.  $\alpha$ -Amidoisovaleriansäure. HBr (*A.* 319, 302 *C.* 1902 [1] 361).
- \*16) Hydrazid d. Isovaleriansäure. Sm. 68°; Sd. 133°<sub>15</sub>. HCl (*J. pr.* [2] 64, 411 *C.* 1902 [1] 23).
- $C_5H_{12}O_2N_2$  \*6) Ornithin. 2HCl, (2HCl, PtCl<sub>4</sub>) (*H.* 34, 129 *C.* 1902 [1] 300).
- \*9) d- $\alpha$ -Diamidovaleriansäure (*B.* 34, 462).
- $C_5H_{12}O_2S$  \*1) Isoamylsulfinssäure. Ag (*B.* 34, 2659).
- $C_5H_{12}O_2S$  \*3) Isoamylschwefelsäure. Ba + 2H<sub>2</sub>O (*B.* 35, 1598 *C.* 1902 [1] 1270).
- \*5) d- $\beta$ -Methylbutylschwefelsäure. Ba + 2H<sub>2</sub>O (*B.* 35, 1600 *C.* 1902 [1] 1270).
- $C_5H_{13}ON$  \*2) Isovaleraldehydammoniak + 6H<sub>2</sub>O (*C. r.* 134, 1595 *C.* 1902 [2] 347).
- \*9)  $\beta$ -Amido- $\gamma$ -Oxypentan. Sd. 174°<sub>760</sub>. Pikrolonat (*C.* 1902 [1] 716).
- \*11) Aethylpropylhydroxylamin. Sd. 143—147°<sub>765</sub>. HCl (*J. pr.* [2] 63, 211).
- \*12)  $\gamma$ -Amido- $\beta$ -Oxypentan. Sd. 174°<sub>765</sub>. Oxalat (*C.* 1902 [1] 717).
- \*13)  $\alpha$ -Amido- $\alpha$ -Oxy- $\beta$ -Methylbutan + 8H<sub>2</sub>O ( $\alpha$ -Methylbuttersäurealdehydammoniak) (*C. r.* 134, 123 *C.* 1902 [1] 412).
- \*14)  $\beta$ -Propylamido- $\alpha$ -Oxyäthan. Fl. (HCl, AuCl<sub>3</sub>), Pikrat, Pikrolonat (*A.* 315, 110).
- \*15)  $\beta$ -Isopropylamido- $\alpha$ -Oxyäthan. Fl. (2HCl, PtCl<sub>4</sub>), Pikrat, Pikrolonat (*A.* 315, 117).
- $C_5H_{15}O_3N$  \*3) Methyl-di[ $\beta$ -Oxyäthyl]amin. Pikrolonat (*A.* 315, 126).
- $C_5H_{13}O_3P$  \*4) Aethylester d.  $\alpha$ -Oxyisopropylunterphosphorigesäure. Fl. (*C. r.* 134, 288 *C.* 1902 [1] 566).
- $C_5H_{15}O_3P$  \*4) Dimethylester d.  $\alpha$ -Oxyisopropylphosphinsäure. Sm. 76° (*C. r.* 135, 106 *C.* 1902 [2] 504).
- $C_5H_{15}O_2N$  \*1) Cholin (*C.* 1902 [2] 1304).
- \*2) Methyläther d. Oxytetramethylammoniumoxyhydrat. Salze siehe (*A.* 316, 165).

## — 5 IV —

- $C_5H_3ON_3S$  1) Azid d. Thiophen-2-Carbonsäure. Sm. 37° (*J. pr.* [2] 65, 14 *C.* 1902 [1] 459).
- $C_5H_3O_2NCl_4$  \*3) Amid d.  $\beta\delta\delta\delta$ -Tetrachlor- $\gamma$ -Keto- $\alpha$ -Buten- $\alpha$ -Carbonsäure (*A.* d.  $\beta$ -Trichloracetyl- $\beta$ -Chlorakrylsäure). Sm. 107—108° (*B.* 26, 1674). — \*1, 757.
- $C_5H_3O_2N_3Cl_2$  2) 2,6-Dichlor-5-Nitro-4-Methyl-1,3-Diazin. Sm. 53-54,5°; Sd. 240° (*B.* 34, 1243).
- $C_5H_3O_2ClBr_2$  1) 3-Chlor- $\beta$ -Dibrom-1,2-Diketo-R-Pentamethylen. Sm. 121—122° (*B.* 35, 3214 *C.* 1902 [2] 1250).
- $C_5H_4O_2N_4S$  \*1) 8-Merkapto-2,6-Diketopurin (D.R.P. 128117 *C.* 1902 [1] 548; *B.* 35, 2570 *C.* 1902 [2] 580).
- $C_5H_3O_2N_4Cl$  1) 2-Chlor-5-Nitro-6-Amido-4-Methyl-1,3-Diazin. Sm. 170—171° (*B.* 34, 1244).
- \*2) 2-Chlor-6-Nitramido-4-Methyl-1,3-Diazin (*B.* 34, 1241).
- $C_5H_3O_2N_3Br_2$  1)  $\alpha$ - $\beta$ -Dibrom- $\gamma$ -Semicarbazonerotonsäure (Mueobromsäuresemicarbazon). Sm. 215° (*B.* 34, 1014).



- $C_5H_6ONCl$  \*1) Nitril d.  $\gamma$ -Chlor- $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd.  $95^{\circ}_{15}$  (C. 1901 [1] 96).
- $C_5H_6ONBr$  1) Nitril d.  $\gamma$ -Brom- $\beta$ -Ketobutan- $\gamma$ -Carbonsäure. Sd.  $122^{\circ}_{30}$  (C. 1901 [1] 96).
- $C_5H_6ON_2S$  4) Hydrazid d. Thiophen-2-Carbonsäure. Sm.  $136^{\circ}$ . HCl, Na (J. pr. [2] 65, 7 C. 1902 [1] 458).
- $C_5H_6O_3N_4S$  3)  $\gamma$ -Thiopseudoharnsäure.  $NH_4$ , Na +  $\frac{1}{2}H_2O$ , Ba +  $3H_2O$ , Pt +  $2H_2O$  (B. 35, 2565 C. 1902 [2] 578).
- $C_5H_6O_4ClBr$  1) Dimethylester d. Chlorbrommalonsäure. Sm.  $37^{\circ}$  (B. 35, 1817 C. 1902 [2] 24).
- $C_5H_7ON_4Cl_2$  1) Dichlorporphyrin. Sm.  $117-118^{\circ}$ .  $NH_4 + H_2O$ , Na +  $H_2O$ , Ag (B. 34, 2358).
- $C_5H_7O_2N_2Br$  1) 4- oder 5-Brom-2,6-Diketo-4-Methylhexahydro-1,3-Diazin. Sm.  $315-320^{\circ}$  (B. 34, 3756).
- $C_5H_8ONS$  7) 2-Methylimido-4-Keto-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm.  $210^{\circ}$  u. Zers. HCl, HJ (LANGLET Privatmittheilung). — \*I, 744.
- $C_5H_8ONCl$  1) Chlorporphyrin. Sm.  $152^{\circ}$  u. Zers. Ag (B. 34, 2356).
- $C_5H_8OClBr$  1) Chlorid d.  $\alpha$ -Brombuttersäure. Sd.  $154^{\circ}_{770}$  (B. 34, 4057 C. 1902 [1] 177).
- $C_5H_8ONS_2$  2) Dimethyläther d. Acetylimidodimerkaptomethan. Sd.  $142-144^{\circ}_{20}$  (Am. 26, 192).
- $C_5H_8O_3NS$  [2] O-Methylester-S-Aethylester d. Amidothioameisensäure-N-Carbonsäure. Sm.  $83^{\circ}$  (Soc. 79, 912).
- $C_5H_8O_4BrS_2$  1) Cyklo- $\alpha\alpha$ -Trimethylendisulfon- $\alpha$ -Bromäthan. Sm.  $208-210^{\circ}$  (B. 35, 1395 C. 1902 [1] 1096).
- $C_5H_8N_4BrS$  2) 2-Imido-5-Brommethyl-3-Methyltetrahydrothiazol. (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ), HJ (Ar. 234, 45). — \*I, 742.
- $C_5H_{10}ONCl$  4)  $\beta$ -Chlor- $\gamma$ -Nitroso- $\beta$ -Methylbutan. Fl. (B. 35, 3732 C. 1902 [2] 1405).
- 5)  $\beta$ -Chlor- $\gamma$ -Oximido- $\beta$ -Methylbutan. Sm.  $49-50^{\circ}$ ; Zers. bei  $130^{\circ}$  (B. 35, 3735 C. 1902 [2] 1405).
- $C_5H_{10}ONBr$  2)  $\gamma$ -Brom- $\gamma$ -Nitrosopentan. Sd.  $49^{\circ}_{17}$  (B. 35, 3096 C. 1902 [2] 1183).
- $C_5H_{10}O_2NCl$  3)  $\delta$ -Chlor- $\delta$ -Nitro- $\beta$ -Methylbutan. Sd.  $178^{\circ}_{750}$  (C. 1902 [1] 400).
- $C_5H_{10}O_2NBr$  \*2) Diäthyläther d. Bromimidodioxymethan. Sm.  $73^{\circ}$  (Soc. 79, 703).
- $C_5H_{10}O_2NS$  3)  $\delta$ -Brom- $\delta$ -Nitro- $\beta$ -Methylbutan. Sd.  $119-120^{\circ}_{50}$  (C. 1902 [1] 400).
- 2) Methylester d.  $\alpha$ -Aethylthioharnstoff- $\beta$ -Carbonsäure. Sm.  $86^{\circ}$  (Soc. 79, 910).
- $C_5H_{11}O_2ClS$  \*4) Chlorid d.  $\beta$ -Methylbutan- $\delta$ -Sulfonsäure. Sd.  $97,5-98^{\circ}_{13}$  (R. 21, 80 C. 1902 [1] 855).
- $C_5H_{11}O_3NS$  4) Hexahydropyridin-1-Sulfonsäure (B. 34, 2762).
- 5) Hexahydropyridin-3- oder 4-Sulfonsäure. Sm.  $187-188^{\circ}$ . K, Ba +  $H_2O$ , Ag (B. 34, 2759).
- $C_5H_{12}ONJ$  1) Methylamid d. Essigsäure + Aethyljodid (Am. 18, 607). — \*I, 698.
- $C_5H_{13}O_2NS$  2) Amid d.  $\beta$ -Methylbutan- $\delta$ -Sulfonsäure. Sm.  $3^{\circ}$  (R. '21, 82 C. 1902 [1] 855).
- $C_5H_{11}ONCl$  [2] Methyläther d. Oxytetramethylammoniumchlorid.  $2^{\circ} + PtCl_4$ , +  $AuCl_3$  (A. 316, 166).
- $C_5H_6O_3N_2Cl_3Br_3^{++}$  1) Chloralbromalharnstoff. Sm.  $186^{\circ}$  (D.R.P. 128462 C. 1902 [1] 547, 548).

## — 5 V —

C<sub>6</sub>-Gruppe.

- $C_6H_6$  \*1) Benzol (D.R.P. 125936; C. 1902 [1] 77; B. 35, 526 C. 1902 [1] 632; M. 23, 669 C. 1902 [2] 737).
- $C_6H_{10}$  \*11)  $\beta\delta$ -Hexadien. Sd.  $87-89^{\circ}$  (B. 35, 1338 C. 1902 [1] 1047).
- \*15)  $\beta\gamma$ -Dimethyl- $\alpha\gamma$ -Butadien (J. pr. [2] 64, 109).
- \*16) Tetrahydrobenzol. Sd.  $83-84^{\circ}_{753}$  (B. 34, 3252).
- \*17) 1-Methyl-2,3-Dihydro-R-Penten. Sd.  $69^{\circ}_{765}$  (B. 35, 2491 C. 1902 [2] 443).
- 25)  $\beta$ -Methyl- $\alpha\gamma$ -Pentadien. Sd.  $75-77^{\circ}_{779}$  (B. 34, 302).

- $C_6H_{10}$  26) polym.  $\alpha\gamma$ -Dimethyl- $\alpha\gamma$ -Butadien =  $(C_6H_{10})_x$  (*J. pr.* [2] 64, 109).  
 $C_6H_{12}$  \*5)  $\gamma\gamma$ -Dimethyl- $\alpha$ -Buten. Sd. 56—58° (*B.* 34, 2860).  
 \*6)  $\beta\gamma$ -Dimethyl- $\beta$ -Buten. Sd. 70—72° (*B.* 34, 3250).  
 \*7) Hexahydrobenzol. Sm. 4,5° (6,4°); Sd. 81° (*C.* 1901 [1] 501; 1901 [2] 201; *B.* 34, 2799).  
 \*8) Methyl-R-Pentamethylen. Sd. 72—72,2° (*B.* 35, 2686 *C.* 1902 [2] 590).  
 16) 1,1,2-Trimethyl-R-Trimethylen. Sd. 57—59°<sup>739</sup> (*B.* 34, 2857).  
 17) 1,2,3-Trimethyl-R-Trimethylen. Sd. 65—67°<sup>755</sup> (*B.* 34, 2863).  
 18) Kohlenwasserstoff (aus Amylen). Sd. 76—82° (*A.* 324, 28 *C.* 1902 [2] 896).  
 $C_6H_{14}$  \*1) Hexan. Sd. 68,5—69°<sup>756</sup> (*J. pr.* [2] 64, 127; *M.* 23, 789 *C.* 1902 [2] 1093).  
 \*3)  $\gamma$ -Methylpentan. Sd. 63—65°<sup>748</sup> (*B.* 34, 2864, 2866).  
 7) Hexan (aus Amylen). Sd. 56—62° (*A.* 324, 27 *C.* 1902 [2] 896).

## — 6 II —

- $C_6HJ_5$  1) Pentajodbenzol. Sm. 172° (*B.* 34, 3353).  
 $C_6H_2Br_4$  \*2) 1,2,4,5-Tetrabrombenzol. Sm. 177—178° (*B.* 34, 2803).  
 $C_6H_2J_4$  3) 1,2,3,4-Tetrajodbenzol. Sm. 114° (*B.* 34, 3353).  
 4) 1,2,3,5-Tetrajodbenzol. Sm. 148° (*B.* 34, 3350).  
 5) 1,2,4,5-Tetrajodbenzol. Sm. 165° (*B.* 34, 3352).  
 $C_6H_2N_3$  \*1) Nitril d. R-Trimethylen-1,2,3-Tricarbonsäure. Sm. 188—189° (*B.* 34, 3714 *C.* 1902 [1] 50).  
 $C_6H_2J_3$  \*2) 1,2,3-Trijodbenzol. Sm. 86° (*B.* 34, 3349).  
 \*3) 1,3,5-Trijodbenzol. Sm. 181° (*Am.* 26, 58; *B.* 34, 3347).  
 $C_6H_4O_2$  \*1) 1,2-Benzochinon (*Am.* 26, 10).  
 \*2) 1,4-Benzochinon (*C.* 1901 [1] 348; *Bl.* [3] 25, 88; *G.* 32 [1] 322 *C.* 1902 [1] 1332).  
 $C_6H_4O_4$  \*1) 2,5-Dioxy-1,4-Benzochinon. subl. bei 215—220° u. Zers. (*B.* 34, 3995 *C.* 1902 [1] 187).  
 \*5) 1,2-Pyron-6-Carbonsäure. Sm. 227—228° (*Soc.* 79, 1280).  
 6) Isocumalinsäure. Sm. 170—180° u. Zers. K (*B.* 34, 1406).  
 $C_6H_4O_5$  \*2) Furan-2,5-Dicarbonsäure.  $(NH_4)_2$ ,  $Na_2$ ,  $+ 4H_2O$ ,  $K_2$ ,  $+ 1\frac{1}{2}(2)H_2O$ ,  $Mg$ ,  $+ 6H_2O$ ,  $Sr$ ,  $+ 6H_2O$ ,  $Ba$ ,  $Cd$ ,  $+ 4(4\frac{1}{2})H_2O$ ,  $Pb$ ,  $Cu$ ,  $+ 3H_2O$  (*B.* 34, 3449; *Am.* 25, 445).  
 \*6) Anhydrid d. Acetoxylmaleinsäure. Sm. 91—92° (*B.* 34, 1147).  
 7) Furan-2,4-Dicarbonsäure  $+ H_2O$ . Sm. 266° (wasserfrei).  $Ca$ ,  $+ 3H_2O$ ,  $Ba$ ,  $+ 4H_2O$ ,  $Ag_2$  (*B.* 34, 1994).  
 $C_6H_4O_6$  \*2) Oxykomensäure  $+ 3H_2O$ . Sm. 275° (*Soc.* 81, 1006 *C.* 1902 [2] 371, 705).  
 $C_6H_4N_3$  \*1) Nitril d. Pyridin-3-Carbonsäure. Sm. 50°; Sd. 240—245°. ( $HCl$ ,  $AuCl_3$ ) (*M.* 23, 901 *C.* 1902 [2] 1475; *Ar.* 240, 368 *C.* 1902 [2] 649).  
 2) Nitril d. Pyridin-2-Carbonsäure. Sm. 26° (29°); Sd. 212—215°. ( $2HCl$ ,  $PtCl_4$ ), ( $HCl$ ,  $AuCl_3$ ) (*M.* 23, 438 *C.* 1902 [2] 373; *Ar.* 240, 367 *C.* 1902 [2] 649; *M.* 23, 900 *C.* 1902 [2] 1475).  
 3) Nitril d. Pyridin-4-Carbonsäure. Sm. 83° (79°). ( $HCl$ ,  $AuCl_3$ ) (*M.* 23, 902 *C.* 1902 [2] 1475; *Ar.* 240, 368 *C.* 1902 [2] 649).  
 $C_6H_2N_3$  \*1) Diazobenzolimid (*B.* 35, 1032 *Ann.* *C.* 1902 [1] 878).  
 $C_6H_6O$  3) Isophenol? (*J. pr.* [2] 65, 304 *C.* 1902 [1] 1217).  
 $C_6H_6O_2$  \*5) 2-Acetylfuran. Sm. 28,5° (*B.* 34, 1072).  
 \*6) Methylfurfurol (*B.* 34, 1425).  
 $C_6H_6O_3$  \*1) 1,2,3-Trioxybenzol (*Soc.* 81, 246 *C.* 1902 [1] 817; *B.* 35, 2954 *C.* 1902 [2] 1040).  
 \*2) 1,2,4-Trioxybenzol (*B.* 34, 2837).  
 \*3) 1,3,5-Trioxybenzol. Sm. 200° (*B.* 34, 1205; *Soc.* 81, 929; *C.* 1902 [2] 358, 699).  
 \*5) Maltol. Sm. 159° (*B.* 34, 1804; *C.* 1902 [1] 214).  
 $C_6H_6O_4$  \*3)  $\alpha\gamma$ -Butadien- $\alpha\delta$ -Dicarbonsäure (Mukonsäure). Sm. 292° u. Zers.  $Ag_2$ ,  $M. 22, 801; *B.* 35, 1147 *C.* 1902 [1] 985).  
 $C_6H_6O_5$  *1) cis-2,5-Dihydrofuran-2,5-Dicarbonsäure. Sm. 149—150°.  $Ca$ ,  $+ 2\frac{1}{2}H_2O$ ,  $Ba$ ,  $+ 2(4\frac{1}{2})H_2O$ ,  $Pb$ ,  $+ 2H_2O$ ,  $Ag_2$ ,  $+ 1\frac{1}{2}H_2O$  (*Am.* 25, 466).  
 *2) isom. 2,5-Dihydrofuran-2,5-Dicarbonsäure  $+ H_2O$ . Sm. 178—179° (wasserfrei).  $Ca$ ,  $+ 2\frac{1}{2}H_2O$ ,  $Ba$ ,  $+ 1\frac{1}{2}H_2O$ ,  $Pb$ ,  $+ H_2O$ ,  $Ag_2$  (*Am.* 25, 474).$

- $C_6H_6O_5$  \*4)  $\alpha\beta$ -Lakton d.  $\beta$ -Oxypropan- $\alpha$ -Ketocarbonsäure- $\beta$ -Carbonsäure. Sm. 116–117° (A. 317, 6).  
 \*5)  $\alpha\beta$ -Anhydrid d. Propan- $\alpha\beta\gamma$ -Tricarbonsäure. ( $\alpha\beta$ -A. d. Tricarballylsäure). Sm. 130–131°; Sd. 215–225°<sub>15</sub> (Soc. 81, 35 C. 1902 [1] 111, 410).  
 7)  $\alpha$ -Oxy- $\alpha\gamma$ -Butadien- $\alpha\delta$ -Dicarbonsäure (Soc. 79, 1279).  
 8) 2,3-Dihydrofuran-2,5-Dicarbonsäure. Zers. bei 194° (Am. 25, 480).  
 9)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Keto- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 115–116°.  $NH_3$ , K +  $C_2H_5O$ , Ba, Ag (R. 20, 87; A. 319, 121; R. 21, 191 C. 1902 [2] 509).
- $C_6H_6O_6$  \*10) cis-trans-R-Trimethylen-1,2,3-Tricarbonsäure (R. 34, 995).  
 17) Dilakton d. d-Di[Oxymethyl]weinsäure. (Diformal-d-Weinsäure). Sm. 117° (R. 20, 333).  
 18) Diformal-l-Weinsäure. Sm. 116–117° (R. 20, 336).  
 19) Diformal-i-Weinsäure. (Diformalmesowinsäure). Sm. 106° (R. 20, 337).  
 20) Diformal-r-Weinsäure. Sm. 103° (R. 20, 337).  
 21) Dimethylester d. Weinsäure. Sm. 120°; Sd. 296° (C. 1902 [1] 299; D.R.P. 130346 C. 1902 [1] 1082).
- $C_6H_6N_4$  8) 6-Methylpurin. Sm. 235–236°. (2HCl,  $PtCl_4$  +  $H_2O$ ) (B. 34, 1246).  
 $C_6H_5N$  \*1) Anilin. Salze siehe (B. 34, 805; C. 1902 [1] 3; C. r. 133, 1215 C. 1902 [1] 303).  
 \*2) 2-Methylpyridin ( $\alpha$ -Pikolin). Sd. 129,5°<sub>763</sub> (C. 1902 [1] 4; Soc. 81, 452 C. 1902 [1] 761).  
 8) Nitril d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. Sd. 72°<sub>30</sub> (B. 34, 2222).  
 8) 2-Amido-6-Methylpurin. Sm. oberh. 300° (B. 34, 1256).  
 1) Phenylarsin. Sd. 148° (B. 34, 3598).
- $C_6H_5N_5$  \*1) 2,5-Dimethylfuran (Am. 25, 44).  
 $C_6H_5O$  4) Dihydroresorcin. Sm. 104° (B. 34, 2841).  
 $C_6H_5O_2$  \*7) 2,3-Dihydro-R-Penten-4-Carbonsäure. Sm. 120° (A. 317, 66).  
 \*8)  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. Sm. 134°. K, Ba, Cu, Ag (B. 35, 3633, 3639 C. 1902 [2] 1408).
- $C_6H_8O_4$  48)  $\alpha$ -Buten- $\beta\delta$ -Dicarbonsäure ( $\alpha$ -Methylenglutarsäure). Sm. 129–130° (B. 34, 428).
- $C_6H_8O_5$  \*9) Dimethylester d. Oxalessigsäure. Cu (A. 321, 383 C. 1902 [1] 1275).  
 \*12) Tetrahydrofuran-2,5-Dicarbonsäure. Sm. 124° (Am. 25, 483).
- $C_6H_8O_6$  \*13) isom. Tetrahydrofuran-2,5-Dicarbonsäure. Sm. 64° (Am. 25, 483).  
 \*2) Propan- $\alpha\beta\gamma$ -Tricarbonsäure (Tricarballylsäure). Sm. 157–159° (Soc. 81, 34 C. 1902 [1] 111, 409).  
 \*5) Parabrenztraubensäure. Fl. Ba, Pb +  $3H_2O$  (A. 317, 9; R. 20, 373; R. 21, 195 C. 1902 [2] 509).  
 10) Metabrenztraubensäure. Ba (R. 20, 378; R. 21, 195 C. 1902 [2] 509).  
 11)  $\alpha$ -Keto- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 115°.  $NH_3$ , K, Ba +  $H_2O$ , Ag (R. 20, 99; R. 21, 192 C. 1902 [2] 509).  
 12) Celloxin (B. 32, 2600; 34, 1435).  
 \*2) Citronensäure (G. 31 [1] 536).
- $C_6H_8O_7$  \*2) 1,3-Diamidobenzol.  $2HNO_3$  (C. 1902 [1] 716).  
 $C_6H_8N_2$  \*5) 2,5-Dimethyl-1,4-Diazin (B. 35, 3008 C. 1902 [2] 1121).  
 \*12) 4,6-Dimethyl-1,3-Diazin. Sm. 25°; Sd. 159,5°<sub>751</sub>. +  $2HgCl_2$  (B. 34, 3957 C. 1902 [1] 127).  
 13) 4,5-Dimethyl-1,3-Diazin. Sm. 3°; Sd. 176,5–177°. +  $2HgCl_2$ , 2 +  $PtCl_4$ , +  $AuCl_3$  (B. 34, 2814).  
 14) 2,4-Dimethyl-1,3-Diazin. Sd. 146° (B. 35, 1577 C. 1902 [1] 1236).  
 15) Nitril d. Butan- $\alpha\gamma$ -Dicarbonsäure. Sd. 134°<sub>13</sub> (M. 23, 743 C. 1902 [2] 1097).  
 16) Nitril d. Butan- $\alpha\delta$ -Dicarbonsäure. Sm. 0 bis + 1°; Sd. 295°<sub>760</sub> (C. 1901 [2] 807).
- $C_6H_9N$  \*3) 3-Aethylpyrrol. Sd. 163–165° (C. 1901 [2] 1136).  
 \*5) 2,4-Dimethylpyrrol. Sd. 165°<sub>741</sub> (B. 34, 3494 Ann.).
- $C_6H_9N_2$  \*5) 6-Amido-2,4-Dimethyl-1,3-Diazin. Sm. 183°. (2HCl,  $PtCl_4$ ), Pikrat, +  $HgCl_2$  (B. 35, 1577 C. 1902 [1] 1236).  
 9) 2-Amido-4,5-Dimethyl-1,3-Diazin. Sm. 214–215°. (2HCl,  $PtCl_4$ ), +  $AuCl_3$ , Pikrat (B. 34, 2819).  
 10) 2-Amido-4,6-Dimethyl-1,3-Diazin. Sm. 150–152°. 2HCl, (2HCl,  $PtCl_4$ ), Pikrat, +  $HgCl_2$  (B. 34, 3962 C. 1902 [1] 127).



- $C_6H_{10}O$  \*7) Keto-hexahydrobenzol. Sd. 155,4° (*B.* 34, 2800).
- \*9) 3-Keto-1-Methyl-R-Pentamethylen. Sd. 144,6—144,8°<sub>764</sub> (*B.* 34, 3950 *C.* 1902 [1] 115; *B.* 35, 2489 *C.* 1902 [2] 443).
- $C_6H_{10}O_2$  \*7)  $\beta$ -Diketohexan. + 2NaHSO<sub>3</sub> + H<sub>2</sub>O (*Soc.* 79, 681).
- \*12)  $\alpha$ -Penten- $\epsilon$ -Carbonsäure (*Soc.* 79, 1200).
- \*19) Brenzterebinsäure (*C. r.* 134, 295 *C.* 1902 [1] 568).
- \*30) Lakton d.  $\beta$ -Oxy- $\beta$ -Methylbutan- $\delta$ -Carbonsäure. Sd. 205° (*C. r.* 134, 294 *C.* 1902 [1] 568; *Soc.* 81, 257 *C.* 1902 [1] 810).
- \*42) Aethylester d. R-Trimethylen-carbonsäure. Sd. 134° (*C.* 1901 [1] 1357; 1901 [2] 579).
- \*49)  $\gamma$ -Diketohexan. Fl. (*J. pr.* [2] 63, 366; *G.* 31 [1] 458).
- \*52)  $\gamma$ -Methyl- $\alpha$ -Buten- $\gamma$ -Carbonsäure (Vinyl-dimethyl-lessigsäure). Sd. 207° bis 208°<sub>760</sub> (*Soc.* 81, 256 *C.* 1902 [1] 810).
- 53)  $\beta$ - $\gamma$ -Hexandioxyd. Sd. 176—178° (*B.* 35, 1342 *C.* 1902 [1] 1048).
- 54) Acetat d. 1-Oxymethyl-R-Trimethylen. Sd. 134°<sub>753</sub> (*C.* 1902 [1] 914).
- $C_6H_{10}O_3$  \*18) Anhydrid d. Propionsäure (*B.* 34, 926).
- \*26) Aethylester d.  $\alpha$ -Ketopropan- $\alpha$ -Carbonsäure. Sd. 66—67°<sub>16</sub> (*R.* 21, 234 *C.* 1902 [2] 506).
- \*28) Aethylester d. Acetessigsäure. (Cu, NH<sub>3</sub>), + 2SbCl<sub>5</sub>, (2 + 3HgO, 2HgSO<sub>4</sub> + 4H<sub>2</sub>O) (*B.* 35, 247; *B.* 35, 1129 *C.* 1902 [1] 925; *B.* 35, 542 *C.* 1902 [1] 626; *B.* 35, 2321 *C.* 1902 [2] 434; *J. pr.* [2] 65, 528 *C.* 1902 [2] 344; *B.* 35, 2585 *C.* 1902 [2] 571).
- \*30) Acetat d.  $\gamma$ -Oxy- $\beta$ -Ketobutan. Sd. 164° (*C.* 1901 [1] 96).
- \*33) Acetat d.  $\alpha$ -Oxy- $\beta$ -Ketobutan. Sd. 176° (*C.* 1901 [1] 96).
- 34) Aether d.  $\alpha$ -Oxy- $\beta$ -Ketopropan<sup>9</sup> Sm. 130°; Sd. 196° (*C.* 1902 [2] 928).
- 35)  $\delta$ -Oxy- $\beta$ -Penten- $\epsilon$ -Carbonsäure. Fl. Ba (*B.* 35, 3638 *C.* 1902 [2] 1409).
- 36) 2-Oxy-R-Pentamethylen-1-Carbonsäure. Fl. K, Ag (*A.* 317, 65).
- 37) Gem. Anhydrid d. Essigsäure u. Buttersäure. Sd. 155—157° (*B.* 34, 177).
- 38) Aethylester d.  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure. Sd. 173°<sub>756</sub> (*R.* 21, 217 *C.* 1902 [2] 505).
- 39) Propylester der Brenztraubensäure. Sd. 166° (*C.* 1902 [2] 1403).
- 40) Propionat d.  $\alpha$ -Oxy- $\beta$ -Ketopropan. Sd. 187° (*C.* 1902 [2] 1403).
- $C_6H_{10}O_4$  \*9) Butan- $\alpha$ - $\gamma$ -Dicarbonsäure. Sm. 77—78° (*Soc.* 79, 128; *M.* 23, 745 *C.* 1902 [2] 1097).
- \*10) Butan- $\alpha$ - $\delta$ -Dicarbonsäure. Sm. 150° (*C.* 1901 [1] 610).
- \*29) Diäthylester d. Oxalsäure. Ferrocyanhädrat, + 2SbCl<sub>5</sub> (*B.* 34, 2692; *B.* 35, 1118 *C.* 1902 [1] 924).
- $C_6H_{10}O_5$  \*9) Cellulose (*B.* 35, 1252 *C.* 1902 [1] 1076).
- \*16) Glykogen (*C.* 1901 [2] 45; *Soc.* 81, 1224 *C.* 1902 [2] 906).
- \*32) Mannan (*C.* 1902 [2] 1417).
- \*72) Metasaccharin (*B.* 35, 3528 *C.* 1902 [2] 1305).
- \*73) Isosaccharin (*B.* 34, 1429).
- \*87) Diacetat d. Di[Oxymethyl]äther. Sd. 204—207° (*Bl.* [3] 27, 870 *C.* 1902 [2] 934).
- 102) Dextrin (*M.* 22, 1063 *C.* 1902 [1] 182).
- 103) Lösliche Stärke (*M.* 22, 1049 *C.* 1902 [1] 182).
- $C_6H_{10}O_6$  \*26) Anhydrid d. d-Galaktonsäure. Sm. 134—136° (*B.* 35, 948 *C.* 1902 [1] 859).
- 27) d- $\alpha$ - $\beta$ -Dioxyäthandimethyläther- $\alpha$ - $\beta$ -Dicarbonsäure. Sm. bei 151° (NH<sub>4</sub>)<sub>2</sub>, Na, Na<sub>2</sub>, K, K<sub>2</sub>, Mg, Ca + 2H<sub>2</sub>O, Ba + 5H<sub>2</sub>O, Zn + 2H<sub>2</sub>O, Ag<sub>2</sub> (*Soc.* 79, 959).
- 28) Verbindung (aus Glykose) oder C<sub>6</sub>H<sub>10</sub>O<sub>6</sub> (*Soc.* 81, 669 *C.* 1902 [1] 859).
- \*5) d-Glykuronsäure (*H.* 32, 529; *H.* 36, 261 *C.* 1902 [2] 1098).
- \*5) d-Zuckersäure. Chininsalz, Cinchoninsalz (*B.* 34, 492; *B.* 34, 3966 *C.* 1902 [1] 213).
- \*13) Norisozuckersäure. Chininsalz, Brucinsalz, Cinchoninsalz (*B.* 34, 3845 *C.* 1902 [1] 71; *B.* 34, 3965 *C.* 1902 [1] 213).
- $C_6H_{10}N_2$  \*2) 3,4,5-Trimethylpyrazol. Sm. 137—138°. HCl, Pikrat (*B.* 34, 3982 *C.* 1902 [1] 192).
- 13) Base (aus salzsaurem Amidoaceton). Sm. 115—116°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub> + H<sub>2</sub>O), Oxalat, Pikrat (*B.* 35, 3807 *C.* 1902 [2] 1407).

- $C_6H_{10}N_4$  7) 2, 6-Diamido-4, 5-Dimethyl-1, 3-Diazin. Sm. 192°. (2HCl, PtCl<sub>4</sub>) (B. 34, 2827).  
 $C_6H_{10}Br_2$  6)  $\beta\epsilon$ -Dibrom- $\gamma$ -Hexen. Sd. 94—96°<sub>12-14</sub> (B. 35, 1338 C. 1902 [1] 1048).  
 $C_6H_{10}Br$  \*9)  $\beta\gamma\delta\epsilon$ -Tetrabromhexan. Sm. 181° (B. 35, 1338 C. 1902 [1] 1047).  
 $C_6H_{10}S$  \*4) Dialylsulfid (C. 1901 [1] 367).  
 $C_6H_{10}S_2$  \*1) Diallyldisulfid. Sd. 174° u. Zers. (R. 20, 134).  
 $C_6H_{11}N$  11) 3-Aethyl- $\beta$ -Dihydropyrrol. Fl. (2HCl, PtCl<sub>4</sub>) (D.R.P. 127086; C. 1902 [1] 335).  
12) 2, 4-Dimethyl- $\beta$ -Dihydropyrrol. Sd. 121°<sub>752</sub>. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat, Pikrolonat (B. 34, 3494).  
13) 2, 5-Dimethyl- $\beta$ -Dihydropyrrol. Sd. 106°<sub>736</sub>. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat, Pikrolonat (B. 34, 3492).  
14) isom. 2, 5-Dimethyl-2, 3-Dihydropyrrol. Sd. 190°<sub>736</sub> (C. 1901 [1] 72).  
 $C_6H_{11}Cl$  \*7) Chlorhexahydrobenzol. Sd. 125,5° (Am. 25, 285).  
 $C_6H_{11}J$  \*4) Jodhexahydrobenzol. Sd. 68,5—69°<sub>10</sub> (B. 34, 2801).  
\*5) 3-Jod-1-Methyl-R-Pentamethylen. Sd. 78—80°<sub>32</sub> (B. 35, 2490 C. 1902 [2] 443).  
 $C_6H_{12}O$  \*13) Oxyhexahydrobenzol. Sd. 160,9° (B. 34, 2800).  
\*15) 3-Oxy-1-Methyl-R-Pentamethylen (B. 35, 2490 C. 1902 [2] 443).  
\*21)  $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Oxyd (C. 1902 [1] 628).  
\*24)  $\gamma$ -Ketohehexan. Sd. 122—124° (C. 1901 [1] 726; M. 22, 322).  
\*25)  $\beta$ -Keto- $\gamma$ -Methylpentan. Sd. 117,6—117,8° (B. 34, 2865).  
\*28)  $\gamma$ -Keto- $\beta\beta$ -Dimethylbutan (Pinakolin) (C. r. 133, 738).  
\*34) Aldehyd d.  $\beta$ -Methylbutan- $\delta$ -Carbonsäure. Sd. 120—125° (C. r. 134, 1228 C. 1902 [2] 22).  
\*36) 1-Oxy-1-Methyl-R-Pentamethylen. Sm. 35—37°; Sd. 135°<sub>737</sub> (B. 35, 2683 C. 1902 [2] 589; B. 35, 2685 C. 1902 [2] 590).  
39)  $\alpha$ -Oxyisopropyl-R-Trimethylen. Sd. 123°<sub>740</sub> (B. 34, 2884; B. 34, 3887 C. 1902 [1] 110).  
40)  $\beta$ -Methylpentan- $\beta\epsilon$ -Oxyd? Sd. 92—93°<sub>746</sub> (B. 34, 3888 C. 1902 [1] 110).  
41) 2, 5-Dimethyltetrahydrofuran. Sd. 92—94° (B. 35, 1336 C. 1902 [1] 1047).  
42) Verbindung (aus  $\alpha\gamma$ -Dioxy- $\beta\beta\epsilon$ -Trimethylhexan). Sd. 175° (M. 22, 411).  
 $C_6H_{12}O_2$  \*2) cis-Chinit. Sm. 102° (B. 34, 507).  
\*3) trans-Chinit. Sm. 139° (B. 34, 507).  
\*13) Capronsäure. Ca (Soc. 81, 358 C. 1902 [1] 981).  
\*20)  $\beta$ -Methylbutan- $\delta$ -Carbonsäure (A. 318, 146).  
\*37) sec. Butylester d. Essigsäure. Sd. 111,5—112°<sub>744</sub> (Am. 26, 310).  
44)  $\delta$ -Oxy- $\beta$ -Keto- $\gamma$ -Methylpentan. Sd. 104—107°<sub>20</sub> (B. 34, 2862).  
45) Propyläther d.  $\alpha$ -Oxy- $\beta$ -Ketopropan. Sd. 146° (C. 1902 [2] 1403).  
 $C_6H_{12}O_3$  \*12)  $\beta$ -Oxy- $\alpha$ -Methylvaleriansäure. Fl. Na, Ba (C. 1901 [2] 30).  
\*33) Metaldehyd (M. 23, 731 C. 1902 [2] 1096).  
\*43) Aethyl ester d. Oxyessigäthyläthersäure (B. 34, 871).  
57)  $\epsilon\epsilon$ -Dioxy- $\beta$ -Ketohehexan. Sd. 189—190°<sub>20</sub> (B. 34, 1981).  
58)  $\beta\gamma$ -Dioxy- $\delta$ -Keto- $\beta$ -Methylpentan (Trimethyltriose). Sd. 109°<sub>19</sub> (B. 34, 2979).  
59) Aldehyd d.  $\beta\gamma$ -Dioxy- $\beta$ -Methylbutan- $\delta$ -Carbonsäure. Sm. 70°; Sd. 125—127°<sub>16</sub> (M. 22, 528).  
60) Monoacetat d.  $\alpha\beta$ -Dioxyäthanmonoäthyläther. Sd. 158° (C. 1902 [2] 1403).  
 $C_6H_{12}O_4$  21) Betit. Sm. 224° (B. 34, 1162).  
22) Aethylidenäther d. Erythrit. Sm. 102° (Bl. [3] 25, 584).  
 $C_6H_{12}O_5$  16) Rhodeose (C. 1900 [1] 803; 1901 [1] 1042; 1902 [2] 1361).  
 $C_6H_{12}O_6$  \*7) d-Galaktose (Soc. 81, 189 C. 1902 [1] 576).  
\*8) l-Galaktose (H. 36, 226 C. 1902 [2] 1099).  
\*9) i-Galaktose. Sm. 143—144° (B. 34, 1424; H. 36, 221 C. 1902 [2] 1099).  
\*14) d-Glykose (Soc. 81, 188 C. 1902 [1] 576; M. 23, 750 C. 1902 [2] 1100).  
\*21) d-Inosit + 2H<sub>2</sub>O (C. 1902 [2] 1498).  
\*22) l-Inosit + 2H<sub>2</sub>O (C. 1902 [2] 1498).  
\*23) i-Inosit + 2H<sub>2</sub>O (C. 1902 [2] 1498).  
\*25) Lävulose (Fructose) (B. 35, 1449 C. 1902 [1] 1160; Soc. 81, 189 C. 1902 [1] 576).

- $C_6H_{12}O_6$  \*28) d-Mannose (*B.* 34, 1424, 1534).  
 \*47) Metasaccharinsäure (*B.* 35, 3528 *C.* 1902 [2] 1305).  
 \*50) Parasaccharinsäure (*B.* 35, 3529 *C.* 1902 [2] 1305).  
 \*52) Rhamnonsäure. Ca (*B.* 35, 2362 *C.* 1902 [2] 510).  
 \*59)  $\alpha$ -Glykose (*C.* 1901 [1] 776).  
 \*60)  $\beta$ -Glykose (*C.* 1901 [1] 776).  
 \*61)  $\gamma$ -Glykose (*C.* 1901 [1] 776).  
 68) r-Galaktose (*H.* 36, 219 *C.* 1902 [2] 1098).  
 69) r-Inosit (*C.* 1902 [2] 1498).  
 $C_6H_{12}O_7$  \*5) d-Glykonsäure (*B.* 34, 442).  
 $C_6H_{12}N_2$  \*1) 3,5,5-Trimethyl-4,5-Dihydropyrazol. *Sd.* 63—64°<sub>23</sub>. HCl, Oxalat (*M.* 22, 764; *A.* 319, 233 *C.* 1902 [1] 188).  
 \*6) Diisopropylidenhydrazin (*M.* 22, 762).  
 9) Nitril d. Diäthylamidoessigsäure. *Sd.* 70—71°<sub>24</sub>. HCl (*J. pr.* [2] 65, 193 *C.* 1902 [1] 982).  
 $C_6H_{12}N_4$  \*1) Hexamethylenetetramin. Chinasäures Salz (*C.* 1901 [1] 614; D.R.P. 127 746 *C.* 1902 [1] 687; *C. r.* 135, 694 *C.* 1902 [2] 1381).  
 $C_6H_{12}Br_2$  \*5) meso- $\beta$ -Dibromhexan. *Sm.* 38,2°; *Sd.* 98—99°<sub>16-17</sub> (*B.* 34, 2581; *B.* 35, 1337 *C.* 1902 [1] 1047).  
 \*15)  $\beta$ -Dibrom- $\beta$ -Methylpentan. *Sd.* 82°<sub>21</sub> (*B.* 34, 2858).  
 17) r- $\beta$ -Dibromhexan. *Sd.* 94°<sub>13-14</sub> (*B.* 34, 2581; *B.* 35, 1337 *C.* 1902 [1] 1047).  
 $C_6H_{13}N$  \*15) 3-Methylhexahydropyridin. *Sd.* 120—124°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*M.* 23, 883 *C.* 1902 [2] 1446; *A.* 324, 288 *C.* 1902 [2] 1506).  
 19) Hexamethylenimin. *Sd.* 140°. HCl, (2HCl, PtCl<sub>4</sub>) (*A.* 324, 293 *C.* 1902 [2] 1507).  
 20) 2,4-Dimethyltetrahydropyrrrol. *Sd.* 115—117°<sub>753</sub>. (2HCl, PtCl<sub>4</sub>), Pikrat, Pikrolonat (*B.* 34, 3498).  
 $C_6H_{13}Br$  \*1)  $\alpha$ -Bromhexan (*B.* 34, 4039 *C.* 1902 [1] 177).  
 \*2)  $\beta$ -Bromhexan (*B.* 34, 4037 *C.* 1902 [1] 177).  
 5)  $\gamma$ -Bromhexan (*B.* 34, 4037 *C.* 1902 [1] 177).  
 $C_6H_{14}O$  \*4)  $\alpha$ -Oxy- $\beta$ -Methylpentan (Dipropylalkohol). *Sd.* 148°<sub>762</sub> (*C. r.* 133, 1220 *C.* 1902 [1] 298).  
 \*5)  $\beta$ -Oxy- $\beta$ -Methylpentan (Dimethylpropylcarbinol). *Sd.* 124° (*C.* 1901 [1] 725).  
 \*9)  $\beta$ -Oxy- $\gamma$ -Methylpentan. *Sd.* 134° (*B.* 34, 2866).  
 $C_6H_{14}O_2$  \*5)  $\beta$ -Dioxyhexan. *Sd.* 216—218°<sub>750</sub> (*B.* 35, 1335 *C.* 1902 [1] 1047).  
 \*9)  $\beta$ -Dioxy- $\beta$ -Dimethylbutan (*C.* 1901 [1] 999; 1902 [1] 628; *B.* 35, 2133 *C.* 1902 [2] 260).  
 13)  $\beta$ -Dioxyhexan (Hexylenglykol). *Sm.* 60°; *Sd.* 204—206° (*C.* 1902 [2] 21).  
 14)  $\beta$ -Dioxy- $\beta$ -Methylpentan. *Sd.* 135—136°<sub>40</sub> (*B.* 34, 2858; *M.* 22, 1070 *C.* 1902 [1] 456).  
 15)  $\beta$ -Dioxy- $\gamma$ -Methylpentan. *Sd.* 113—116°<sub>101</sub> (*B.* 34, 2862).  
 $C_6H_{14}O_3$  \*2)  $\alpha$ -Trioxyhexan. *Sd.* 178°<sub>12</sub> (*B.* 34, 1982).  
 11)  $\beta$ -Trioxy- $\beta$ -Methylpentan. *Fl.* (*M.* 22, 533).  
 12) Diäthyläther d. Di(Oxymethyl)äther. *Sd.* 102—106° (*B.* 20, 284).  
 $C_6H_{14}O_6$  \*4) d-Mannit. Wismuthverbindungen (*C.* 1901 [2] 1148, 1320; *Soc.* 81, 188 *C.* 1902 [1] 576; *Soc.* 81, 1218 *C.* 1902 [2] 887).  
 $C_6H_{14}N_2$  \*4) 1-Amido-2-Methylhexahydropyridin. *Sd.* 156—160°. Pikrat (*B.* 35, 2780 *C.* 1902 [2] 998).  
 \*6) 2,5-Dimethylhexahydro-1,4-Diazin (*H.* 34, 351 *C.* 1902 [1] 631).  
 19) bim. N-Methyläthylenimin. *Sd.* 128—130°. (2HCl, PtCl<sub>4</sub>), Ferrocyanat, Pikrat (*B.* 33, 3554).  
 $C_6H_{15}N$  \*2) 2-Amidohexan. *Sd.* 117—118° (*J. pr.* [2] 64, 115).  
 \*10) Dipropylamin (*C.* 1902 [1] 3).  
 \*13) Triäthylamin. 2HCl + MoOCl<sub>3</sub> (*B.* 34, 1574).  
 \*14)  $\gamma$ -Amidohexan. *Sd.* 130°. (2HCl, PtCl<sub>4</sub>) (*J. pr.* [2] 63, 230).  
 \*17)  $\beta$ -Äthylamidobutan (Äthyl-sec. Butylamin). *Sd.* 97—98°<sub>741</sub>. HCl, (2HCl, PtCl<sub>4</sub>), HBr, (*J. pr.* [2] 63, 197).  
 $C_6H_{16}N_2$  \*8)  $\beta$ -Hydrazidohexan (*J. pr.* [2] 64, 115).  
 9)  $\alpha$ -Diamido- $\beta$ -Methylpentan. *Sd.* 78—80°<sub>13</sub>. (2HCl, PtCl<sub>4</sub>), (2HC. 2AuCl<sub>3</sub>) (*M.* 23, 879 *C.* 1902 [2] 1446).

- $C_6H_{10}N_2$  10)  $\beta\delta$ -Diamido- $\beta$ -Methylpentan. Sd. 147—155°. (2HCl,  $PtCl_4$ ), (2HCl,  $3HgCl_2$ ) (B. 34, 301; M. 23, 14 C. 1902 [1] 802).  
 $C_6O_2Br_4$  \*1) 3,4,5,6-Tetrabrom-1,2-Benzochinon (Am. 26, 34).

## — 6 III —

- $C_6HOCl_5$  \*1) Pentachlorphenol (Bl. [3] 27, 271 C. 1902 [1] 1052; Bl. [3] 27, 275 C. 1902 [1] 1054).  
 $C_6HOCl_7$  \*1) 2,2,3,4,4,5,6-Heptachlor-1-Keto-1,2,3,4-Tetrahydrobenzol. Sm. 98° (Bl. [3] 27, 276 C. 1902 [1] 1054).  
 $C_6HO_2Br_3$  \*1) 3,5,6-Tribrom-2-Oxy-1,4-Benzochinon. Sm. 210° (B. 34, 2839).  
 $C_6HO_{11}N_5$  C 22,6 — H 0,3 — O 55,2 — N 21,9 — M. G. 319.  
 1) 2,3,4,5,6-Pentanitro-1-Oxybenzol. Sm. 190° u. Zers. (R. 21, 261 C. 1902 [2] 519).  
 $C_6H_2OBr_4$  \*2) Tribromphenolbrom. Sm. 118° (148—149°) (Am. 27, 31 C. 1902 [1] 469; Soc. 81, 1001 C. 1902 [2] 358, 699).  
 $C_6H_2O_2Br_4$  \*1) 3,4,5,6-Tetrabrom-1,2-Dioxybenzol. Sm. 191° (Am. 26, 31).  
 $C_6H_2O_4Cl_2$  \*1) 3,6-Dichlor-2,5-Dioxy-1,4-Benzochinon (G. 31 [1] 35).  
 $C_6H_2O_4Br_2$  \*1) 3,6-Dibrom-2,5-Dioxy-1,4-Benzochinon (G. 31 [1] 36).  
 $C_6H_2O_6N_4$  4) 3,5-Dinitro-1,2-Dinitrosobenzol? Sm. 133° (B. 34, 55).  
 $C_6H_2O_7N_4$  C 29,7 — H 0,8 — O 46,3 — N 23,1 — M. G. 242.  
 1) 2,4,6-Trinitro-1-Nitrosobenzol. Sm. 198° (B. 34, 59).  
 $C_6H_2O_8N_4$  C 27,9 — H 0,8 — O 49,6 — N 21,7 — M. G. 258.  
 1) 1,2,3,5-Tetranitrobenzol. Sm. 116°. + Anilin (B. 34, 56).  
 $C_6H_2O_9N_4$  \*1) 2,3,4,6-Tetranitro-1-Oxybenzol. Sm. 140° (R. 21, 257 C. 1902 [2] 518).  
 $C_6H_2Br_4S_3$  1) Verbindung (aus Tetraäthylenylhexasulfid) (B. 34, 214).  
 $C_6H_3OJ_3$  \*1) 2,4,6-Trijod-1-Oxybenzol. Sm. 156° (Bl. [3] 25, 632; C. r. 134, 357 C. 1902 [1] 638).  
 $C_6H_3O_2J_3$  \*1) 2-Trijod-1,3-Dioxybenzol (C. 1902 [1] 869).  
 $C_6H_3O_3Br_3$  \*2) 2,4,6-Tribrom-1,3,5-Trioxibenazol (M. 23, 573 C. 1902 [2] 738).  
 3) 3,5,6-Tribrom-1,2,4-Trioxibenazol. Sm. 120° u. Zers. (B. 34, 2839).  
 $C_6H_3O_6N_3$  4) 3,5-Dinitro-4-Nitroso-1-Oxybenzol? Sm. 110° (B. 34, 60).  
 $C_6H_3O_7N_3$  \*3) Pikrinsäure (C. 1901 [2] 1105, 1373; B. 35, 1133 C. 1902 [1] 926; Soc. 81, 1219 C. 1902 [2] 887).  
 6) 2-Trinitro-1-Oxybenzol (Isopikrinsäure). Sm. 117—118°. K (B. 34, 58).  
 $C_6H_3O_9N_3$  \*1) 2,4,6-Trinitro-1,3,5-Trioxibenazol +  $H_2O$ . Sm. 187° u. Zers. (wasserfrei) (R. 21, 262 C. 1902 [2] 519).  
 $C_6H_3NJ_4$  1) 2,3,4,5-Tetraiod-1-Amidobenzol. Sm. 92° (B. 34, 3353).  
 $C_6H_3N_2Cl_3$  2) 2-Chlor-1,4-Di(Chlorimido)-1,4-Dihydrobenzol. Sm. 83—84° (C. 1902 [1] 752).  
 $C_6H_3N_6Co$  1) Kobaltcyanwasserstoff. Salze meist bek. Lit. bedeutend. — I, 1427; \*I, 798.  
 $C_6H_3N_6Fe$  1) Ferricyanwasserstoffsäure. Salze meist bek. Lit. bedeutend. — I, 1422; \*I, 796.  
 $C_6H_3ClBr_2$  \*1) 5-Chlor-1,3-Dibrombenzol. Sm. 99,5°; Sd. 256°<sub>757</sub> (Soc. 79, 1300 C. 1902 [1] 34).  
 2) 3-Chlor-1,2-Dibrombenzol. Sm. 73,5°; Sd. 264°<sub>754</sub> (Soc. 79, 1305 C. 1902 [1] 34).  
 3) 4-Chlor-1,2-Dibrombenzol. Sm. 35,5°; Sd. 256° (Soc. 79, 1298 C. 1902 [1] 34).  
 4) 2-Chlor-1,3-Dibrombenzol. Sm. 69,5°; Sd. 265° (Soc. 79, 1304 C. 1902 [1] 34).  
 5) 4-Chlor-1,3-Dibrombenzol. Sm. 27°; Sd. 258°<sub>757</sub> (Soc. 79, 1299 C. 1902 [1] 34).  
 6) 2-Chlor-1,4-Dibrombenzol. Sm. 40,5°; Sd. 259°<sub>764</sub> (Soc. 79, 1299 C. 1902 [1] 34).  
 $C_6H_3Cl_2Br$  \*1) 3,5-Dichlor-1-Brombenzol. Sm. 77,5°; Sd. 232°<sub>757</sub> (Soc. 79, 1300 C. 1902 [1] 34).  
 2) 2,3-Dichlor-1-Brombenzol. Sm. 60°; Sd. 243°<sub>765</sub> (Soc. 79, 1302 C. 1902 [1] 34).  
 3) 2,4-Dichlor-1-Brombenzol. Sm. 25°; Sd. 235°<sub>751</sub> (Soc. 79, 1297 C. 1902 [1] 34).

- $C_6H_3Cl_2Br$  4) 2,5-Dichlor-1-Brombenzol. Sm.  $33^\circ$ ; Sd.  $235^\circ_{761}$  (Soc. 79, 1298 C. 1902 [1] 34).  
 5) 2,6-Dichlor-1-Brombenzol. Sm.  $65^\circ$ ; Sd.  $242^\circ_{765}$  (Soc. 79, 1303 C. 1902 [1] 34).  
 6) 3,4-Dichlor-1-Brombenzol. Sm.  $24,5^\circ$ ; Sd.  $237^\circ_{757}$  (Soc. 79, 1297 C. 1902 [1] 34).
- $C_6H_4OJ_2$  \*1) 2,4-Dijod-1-Oxybenzol. Sm.  $72^\circ$  (Bl. [3] 25, 631).  
 \*2) 2,6-Dijod-1-Oxybenzol (C. r. 134, 358 C. 1902 [1] 638).  
 5) 2,5-Dijod-1-Oxybenzol. Sm.  $99^\circ$  (C. r. 135, 179 C. 1902 [2] 580).
- $C_6H_4O_2S_2$  2) Verbindung (aus Benzol-1,3-Di[Thiolsulfonsäure]) (B. 35, 2167 C. 1902 [2] 265).
- $C_6H_4O_2N_4$  \*2) Verbindung (aus Acetylen) (G. 32 [1] 202 C. 1901 [2] 178).  
 $C_6H_4O_2N_2$  \*2) 1,3-Dinitrobenzol (B. 35, 1586 C. 1902 [1] 1279).  
 9) 1,3-Diazin-4,6-Dicarbonsäure. Sm.  $222^\circ$ . Cu (B. 34, 3958 C. 1902 [1] 127).
- $C_6H_4O_2N_3$  \*2) 2,4-Dinitro-1-Oxybenzol. Sm.  $114^\circ$  (B. 34, 3312).  
 $C_6H_4O_2N_4$  3) Verbindung (aus  $\beta$ -Dimethyluracil). Zers. bei  $230^\circ$  (A. 323, 174 C. 1902 [2] 890).
- $C_6H_4O_2N_2$  \*3) 4,6-Dinitro-1,3-Dioxybenzol. Sm.  $215^\circ$  (R. 21, 289 C. 1902 [2] 513).  
 \*6) Pyrazol-3,4,5-Tricarbonsäure. Zers. bei  $233^\circ$  (B. 34, 348).
- $C_6H_4O_2N_4$  3) 2,4,6-Trinitro-3-Amido-1-Oxybenzol. Sm.  $218^\circ$  u. Zers.  $NH_4$  (R. 21, 259 C. 1902 [2] 519).  
 4) isom. 2,4,6-Trinitrophenylhydroxylamin. Sm.  $174^\circ$  (B. 34, 57).
- $C_6H_4NCl_3$  \*2) 2,4,5-Trichlor-1-Amidobenzol. Sm.  $96^\circ$  (B. 34, 2111).  
 \*3) 2,4,6-Trichlor-1-Amidobenzol.  $HNO_3$  (Soc. 81, 810 Anm. C. 1902 [2] 110).
- $C_6H_4NJ_3$  2) 3,4,5-Trijod-1-Amidobenzol. Sm.  $78^\circ$ . HCl, (2HCl,  $PtCl_4$ ),  $H_2SO_4$  (B. 34, 3348).
- $C_6H_4N_2Br_2$  3) 2,6-Dibrom-1,4-Diimido-1,4-Dihydrobenzol. HBr (B. 35, 2495 C. 1902 [2] 445).
- $C_6H_4N_2J_4$  1) 2,3,5,6-Tetrajod-1,4-Diamidobenzol. Sm.  $152^\circ$  (B. 34, 3351).  
 $C_6H_4N_6Fe$  1) Ferrocyanwasserstoffsäure. Salze meist bek. Lit. bedeutend. — I, 1419; \*I, 796.
- $C_6H_4N_6Os$  1) Osmiumcyanwasserstoff. Salze siehe (A. 117, 361; J. 1861, 328; Bl. [3] 13, 511). — I, 1431; \*I, 799.
- $C_6H_4N_6Ru$  1) Ruthenocyanwasserstoff. Salze siehe (J. 1855, 446; Bl. [3] 13, 511; Ann. Soc. 18, 986; 20, 29). — I, 1428; \*I, 798.
- $C_6H_4Cl_3J$  3) 3-Chlor-1-Dichlorjodosobenzol. Zers. bei  $100^\circ$  (B. 26, 1947). — \*II, 36.  
 4) 4-Chlor-1-Dichlorjodosobenzol. Zers. bei  $116-117^\circ$  (B. 26, 1947). — \*II, 36.
- $C_6H_3ON$  \*1) Nitrosobenzol (B. 34, 3878 C. 1902 [1] 115; B. 35, 1606 C. 1902 [1] 1325).
- $C_6H_3ON_3$  2) Verbindung (aus Cyanessigsäureäthylester, Aceton und  $NH_3$ ). Sm.  $213-214^\circ$  (C. 1897 [1] 904). — \*I, 677.
- $C_6H_3O_2N$  \*1) Nitrobenzol (C. 1901 [2] 259).  
 \*2) Chinonoxim (B. 35, 1004 C. 1902 [1] 868).  
 \*3) Pyridin-2-Carbonsäure. Sm.  $137^\circ$ . (HCl,  $AuCl_3$ ) (M. 23, 441 C. 1902 [2] 372; Ar. 240, 345 C. 1902 [2] 647).  
 \*5) Pyridin-4-Carbonsäure (Ar. 240, 356 C. 1902 [2] 648).  
 7) 2-Oximido-1-Keto-1,2-Dihydrobenzol (oder 2-Nitroso-1-Oxybenzol). Ag (B. 35, 3037 C. 1902 [2] 1106).
- $C_6H_3O_2Cl$  \*1) 4-Chlor-1,2-Dioxybenzol. Sm.  $84-85^\circ$  (Am. 26, 29).  
 6) Aldehyd d. 2-Chlormethylfuran-5-Carbonsäure. Sm.  $36-37^\circ$  (Soc. 79, 809).
- $C_6H_3O_2Br$  \*3) Aldehyd d. 2-Brommethylfuran-5-Carbonsäure (Soc. 79, 361).  
 $C_6H_3O_2N$  \*5) 2-[ $\beta$ -Nitroäthényl]furan. Sm.  $74^\circ$ ; Sd.  $135^\circ_{20}$  (C. r. 135, 42 C. 1902 [2] 449).  
 12) 4-Oxypyridin-3-Carbonsäure. Sm.  $250^\circ$  (M. 23, 246 C. 1902 [1] 1367).  
 13) 3-Oxypyridin-4-Carbonsäure. Sm.  $315^\circ$  u. Zers. (M. 23, 936 C. 1902 [2] 1476).  
 14) Amid d. Isocumalinsäure. Sm.  $230-240^\circ$  u. Zers. (B. 34, 1406).
- $C_6H_4O_2N_3$  6) anti-4-Nitrodiazobenzol (B. 35, 2976 C. 1902 [2] 1105).  
 $C_6H_3O_2N$  \*3) 2-Nitro-1,3-Dioxybenzol. Sm.  $85^\circ$  (B. 34, 667).  
 \*4) 4-Nitro-1,3-Dioxybenzol (D.R.P. 127283 C. 1902 [1] 151).



- $C_6H_5O_2N$  15) Monoamid d. Furan-2,5-Dicarbonsäure. Sm. 280—281° (*Am.* 25, 453).
- $C_6H_5O_2N$  6) 2-Nitro-1,2,4-Trioxylbenzol. Zers. bei 200—220° (*B.* 34, 2838).
- $C_6H_5O_2N_3$  7) 3,5-Dinitro-1-Hydroxylamidobenzol. Sm. 114—116° (*Soc.* 81, 29 *C.* 1902 [1] 115).
- $C_6H_5O_2Br$  1)  $\beta$ -Brom- $\alpha$ -Keto- $\beta$ -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 149° (*A.* 317, 16; *R.* 21, 203 *C.* 1902 [2] 509).
- $C_6H_5O_2N_3$  \*3) 5-Nitro-2,4-Diketo-1-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin-6-Carbonsäure (*A.* 323, 163 *C.* 1902 [2] 889).
- 4) 5-Nitro-2,4-Diketo-3-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin-6-Carbonsäure + 2H<sub>2</sub>O. K + H<sub>2</sub>O (*A.* 323, 171 *C.* 1902 [2] 890). C 35,5 — H 2,4 — O 55,2 — N 6,9 — M. G. 203.
- $C_6H_5O_2N$  1)  $\alpha\beta$ -Lakton d.  $\alpha$ -Nitroso- $\alpha\beta$ -Dioxypropan- $\alpha$ -Ketocarbonsäure- $\beta$ -Carbonsäure. Sm. 152° u. Zers. (*A.* 317, 20). C 27,8 — H 1,9 — O 43,2 — N 27,0 — M. G. 259.
- $C_6H_5O_2N_5$  1) 2,4,6-Trinitro-3,5-Diamido-1-Oxybenzol. Zers. bei 270° (*R.* 21, 263 *C.* 1902 [2] 519).
- $C_6H_5NJ_2$  2) 2,5-Dijod-1-Amidobenzol. Sm. 88—89° (*C. r.* 135, 178 *C.* 1902 [2] 580).
- 3) 3,5-Dijod-1-Amidobenzol. Sm. 105°. HCl, H<sub>2</sub>SO<sub>4</sub> (*B.* 34, 3346).
- $C_6H_5NHg$  1) Quecksilberphenylimin (siehe auch C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>Hg<sub>2</sub>) (*B.* 35, 2043 *C.* 1902 [2] 114).
- $C_6H_5Cl_3As$  \*1) Phenyldichlorarsin (*A.* 320, 285 *C.* 1902 [1] 919).
- $C_6H_5BrMg$  1) Magnesiumphenylbromid (*C.* 1901 [1] 1357).
- $C_6H_5Br_2B$  1) Dibromid d. Phenylborsäure. Sm. 32—34°; Sd. 99—101°<sub>20</sub> (*A.* 315, 29).
- $C_6H_5ON_2$  \*4) Amid d. Pyridin-2-Carbonsäure. Sm. 105°. (HCl, AuCl<sub>3</sub>) (*M.* 23, 437 *C.* 1902 [2] 372; *Ar.* 240, 347 *C.* 1902 [2] 647).
- \*7) Nitril d.  $\beta$ -Ketobutan- $\gamma\gamma$ -Dicarbonsäure. Sd. 195° (*C.* 1901 [1] 96).
- \*8) Amid d. Pyridin-4-Carbonsäure. Sm. 155° (117—120° wasserhaltig) (*M.* 22, 114; *Ar.* 240, 362 *C.* 1902 [2] 648).
- $C_6H_5ON_4$  7) 8-Keto-6-Methylpurin. Sm. 345°. (HCl, AuCl<sub>3</sub>) (*B.* 34, 1248).
- $C_6H_5O_2N_2$  \*1) Nitramidobenzol (*B.* 35, 265 *C.* 1902 [1] 522).
- \*5)  $\beta$ -Phenylnitrosohydroxylamin (*B.* 35, 267 *C.* 1902 [1] 522).
- \*16) 3-Amidopyridin-4-Carbonsäure. Sm. 308° (292° u. Zers.). HCl, HNO<sub>3</sub> (*B.* 35, 2832 *C.* 1902 [2] 995; *M.* 23, 935 *C.* 1902 [2] 1476).
- 20) 6-Nitroso-3-Amido-1-Oxybenzol (D.R.P. 84 668, 86 966). — \*II, 419.
- 21) 4-Amidopyridin-3-Carbonsäure. Zers. oberh. 340°. (2HCl, PtCl<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>) (*M.* 23, 242 *C.* 1902 [1] 1367).
- 22) 4-Methyl-1,3-Diazin-6-Carbonsäure. Sm. 165—166°. Cu, Ag (*B.* 34, 3958 *C.* 1902 [1] 127).
- 23) 5-Methyl-1,3-Diazin-4-Carbonsäure. Sm. 190°. Cu (*B.* 34, 2815).
- $C_6H_6O_2N_4$  \*5) 2,6-Diketo-3-Methylpurin (*H.* 35, 9 *C.* 1902 [2] 841).
- 12) 2,6-Diketo-3-Methylpurin. Zers. oberh. 400°. HCl (*C.* 1901 [2] 71).
- 13) 2,6-Diketo-9-Methylpurin (9-Methylxanthin). Sm. 384° u. Zers. (*C.* 1901 [1] 1220).
- $C_6H_6O_2S$  \*1) Benzolsulfonsäure (*B.* 34, 1151).
- $C_6H_6O_2S_2$  \*1) Benzolthiolsulfonsäure. Salze siehe (*C.* 1901 [1] 956).
- $C_6H_6O_3N_2$  18) 3-Nitrophenylhydroxylamin. Sm. 178° (D.R.P. 84 138). — \*II, 243.
- $C_6H_6O_3N_4$  \*5)  $\delta$ -Methylharnsäure (*A.* 323, 165 *C.* 1902 [2] 890).
- $C_6H_6O_3S$  \*1) Benzolsulfonsäure. K + 2HF, Rb + 2HF (*A.* 315, 364).
- $C_6H_6O_4N_2$  12) 4-Methylpyrazol-3,5-Dicarbonsäure. Sm. 293° (*J. pr.* [2] 65, 391 *C.* 1902 [1] 1365).
- $C_6H_6O_4N_4$  9) 1,3-Di[Nitramido]benzol. Sd. 90° (*C.* 1902 [1] 716).
- 10) Dichinoyltetroxim (*B.* 20, 1610; 23, 2816; 32, 505). — \*II, 568.
- $C_6H_6O_4Cl_2$  \*3) Dichlormethylparakonsäure (*C.* 1902 [2] 343).
- $C_6H_6O_4S$  \*3) 4-Oxybenzol-1-Sulfonsäure. K + HF, Rb + HF, Cs + HF (*A.* 315, 369).
- $C_6H_6O_4S_1$  1) Benzol-1,3-Di[Thiolsulfonsäure]. Na<sub>2</sub>, K<sub>2</sub>, Ag<sub>2</sub>, Berberinsalz, Strychninsalz (*B.* 35, 2164 *C.* 1902 [2] 264).
- $C_6H_6O_5N_4$  3) Triamid d. Säure C<sub>6</sub>H<sub>3</sub>O<sub>5</sub>N<sub>4</sub> (*B.* 34, 881).
- $C_6H_6O_5Br_2$  2) 2,3-Dibromtetrahydrofuran-2,5-Dicarbonsäure (*Am.* 25, 484).
- 3) 3,4-Dibromtetrahydrofuran-2,5-Dicarbonsäure + H<sub>2</sub>O. Sm. 112 bis 113° (*Am.* 25, 472).
- 4) isom. 3,4-Dibromtetrahydrofuran-2,5-Dicarbonsäure + 2H<sub>2</sub>O. Sm. 213—214° (*Am.* 25, 479).

- $C_6H_6O_6N_2$  3) Dimethylester d. 1,2,3,6-Dioxdiazin-4,5-Dicarbonsäure. Sd.  $151^{\circ}_{10}$  (C. 1901 [2] 274).
- $C_6H_6O_6S$  \*1) 1,2,3-Trioxymethyl-2-Sulfonsäure.  $NH_4 + H_2O$ ,  $Na + 2H_2O$ ,  $K + 2H_2O$  (C. r. 133, 297).
- $C_6H_6O_6S_2$  2) 1,2,3-Trioxymethyl-2-Disulfonsäure  $+ 4H_2O$ .  $(NH_4)_2 + 2H_2O$ ,  $Na_2 + 3\frac{1}{2}H_2O$ ,  $K_2 + 2H_2O$ ,  $Mg$ ,  $Ca + 4H_2O$ ,  $Ba + \frac{1}{2}H_2O$ ,  $Al$  (Bl. [3] 25, 528; C. r. 133, 298). — \*II, 613.
- $C_6H_5NCl$  \*1) 2-Chlor-1-Amidobenzol (Soc. 79, 469).
- \*3) 4-Chlor-1-Amidobenzol. Amidosulfons. Salz, p-Chlorphenylsulfamins. Salz (B. 34, 2750).
- $C_6H_5NaS$  1) Imidophenylarsin (Phenylarsenimid). Sm.  $270^{\circ}$  (A. 320, 291 C. 1902 [1] 919).
- $C_6H_5N_2Cl_2$  6) 2,5-Dichlor-1,3-Diamidobenzol. Sm.  $99-100^{\circ}$  (Soc. 81, 1382 C. 1902 [2] 1189).
- 7) 2,6-Dichlor-4,5-Dimethyl-1,3-Diazin. Sm.  $70-71^{\circ}$ ; Sd.  $249-250^{\circ}$  (B. 34, 2813).
- $C_6H_5N_2Br_2$  8) 4,6-Dibrom-1,3-Diamidobenzol. Sm.  $134^{\circ}$  (Am. 26, 9).
- $C_6H_5N_2J_2$  2) 2,6-Dijod-1,4-Diamidobenzol. Sm.  $108^{\circ}$  (B. 34, 3351).
- $C_6H_5N_2S_2$  1) Verbind. (aus 1,4-Diamidobenzol-2-Di[Thiosulfonsäure]) (C. 1901 [1] 1187).
- $C_6H_5N_2S$  3) 8-Thiocarbonyl-6-Methyl-8,9-Dihydropurin. Sm. noch nicht bei  $340^{\circ}$  (B. 34, 1248).
- $C_6H_7ON$  \*13) 6-Oxy-2-Methylpyridin  $+ 4(5)H_2O$ . Sm.  $157^{\circ}$  (wasserfrei).  $HCl$ ,  $(2HCl, PtCl_4)$  (G. 31 [1] 174).
- 15) 2-Methylimidomethylfuran (Furfurylidenmethylamin). Sd.  $63^{\circ}_{14}$  (B. 35, 410 C. 1902 [1] 662).
- $C_6H_7OCl$  \*1) Chlorid d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. Sd.  $78^{\circ}_{15}$  (B. 34, 2221).
- $C_6H_7O_2N$  \*4) 2-( $\alpha$ -Oximidoäthyl)furan. Sm.  $104^{\circ}$  (B. 34, 1073).
- 26) 2-( $\beta$ -Oximidoäthyl)furan. Sm.  $61-62^{\circ}$ ; Sd.  $120-130^{\circ}_{25}$  (C. r. 135, 42 C. 1902 [2] 449).
- 27) 2,3-Diketo-5-oder-6-Methyl-1,2,3,4-Tetrahydropyridin. Sm. 201 bis  $202^{\circ}$  (B. 35, 1555 C. 1902 [1] 1227).
- 28)  $\alpha$ -Cyan- $\beta$ -Methylpropen- $\gamma$ -Carbonsäure  $+ H_2O$ . Sm.  $200^{\circ}$  (225 bis  $227^{\circ}$  wasserfrei) (C. 1901 [1] 822).
- 29) Nitril d.  $\gamma$ -Acetoxypropen- $\gamma$ -Carbonsäure. Sd.  $75-75,5^{\circ}_{15-16}$  (R. 21, 215 C. 1902 [2] 505).
- $C_6H_7O_2N_3$  \*2) 4-Nitro-1,3-Diamidobenzol. Sm.  $161^{\circ}$  (D.R.P. 130 438 C. 1902 [1] 1083).
- $C_6H_7O_3N$  \*10) Methylester d. 2-Furanylamidoameisensäure. Sd.  $120^{\circ}_{20}$  (J. pr. [2] 65, 37 C. 1902 [1] 460; C. r. 134, 289 C. 1902 [1] 567).
- \*15) Methylester d.  $\alpha$ -Cyan- $\beta$ -Oxyäthenmethyläther- $\alpha$ -Carbonsäure. Sm.  $88^{\circ}$ ; Sd.  $185^{\circ}_{25}$  (Bl. [3] 25, 27).
- \*16) Äthylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylsäure. Sm.  $69^{\circ}$ .  $Ba + 2H_2O$ ,  $Cu + 2H_2O$  (Bl. [3] 25, 36).
- 18) Amidoformiat d. 2-Oxymethylfuran. Sm.  $50^{\circ}$  (B. 35, 1860 C. 1902 [2] 66).
- $C_6H_7O_3As$  \*1) Phenylarsinsäure.  $Ag_2$  (B. 34, 3598; A. 320, 293 C. 1902 [1] 919).
- $C_6H_7O_3N$  C 41,6 — H 4,0 — O 46,2 — N 8,1 — M. G. 173.
- 1)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Oximido- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 118 bis  $120^{\circ}$  (A. 31, 11).
- 2) Monacetat d. Nitrobernsteinsäurealdehyd? (C. r. 134, 776 C. 1902 [1] 1107).
- $C_6H_7O_6Cl$  1) 4-Chlor-3-Oxytetrahydrofuran-2,5-Dicarbonsäure. Zers. bei  $209$  bis  $210^{\circ}$  (Am. 25, 473).
- 2) isom. 4-Chlor-3-Oxytetrahydrofuran-2,5-Dicarbonsäure  $+ 1\frac{1}{2}H_2O$ . Sm.  $95^{\circ}$  (Am. 25, 480).
- $C_6H_7NS$  5) 4-Amido-1-Merkaptobenzol (B. 27, 2814). — \*II, 474.
- $C_6H_7N_2Cl$  \*3) 2-Chlor-1,4-Diamidobenzol. Sm.  $63-64^{\circ}$ .  $2HCl$ ,  $(2HCl, PtCl_4)$ ,  $2HNO_3$ ,  $H_2SO_4$ , Oxalat, Pikrat (C. 1902 [1] 752).
- \*6) 4-Chlorphenylhydrazin. Sm.  $88^{\circ}$  (B. 34, 2351).
- 8) 5-Chlor-1,3-Diamidobenzol. Sm.  $105-106^{\circ}$ .  $HCl$ ,  $(2HCl, PtCl_4)$  (M. 22, 119).
- 9) 6-Chlor-2,4-Dimethyl-1,3-Diazin. Sd.  $182^{\circ}_{760}$  (B. 35, 1576 C. 1902 [1] 1236).

- $C_6H_7N_2Cl$  10) 6-Chlor-4,5-Dimethyl-1,3-Diazin. Sm. 51°; Sd. 203° (B. 34, 2824).  
11) 2-Chlor-4,6-Dimethyl-1,3-Diazin. Sm. 38°; Sd. 223,3°<sub>756</sub> (B. 34, 3956 C. 1902 [1] 126).
- $C_6H_5ON_2$  16) 3-Keto-2,3-Dihydrocyklotrimethylenpyrazol. Sm. 270—275° (A. 317, 60).  
17) 6-Oxy-4,5-Dimethyl-1,3-Diazin. Sm. 204°. HJ (B. 34, 2823).
- $C_6H_5ON_4$  4) 5-Formylamido-6-Amido-4-Methyl-1,3-Diazin. Sm. 200° u. Zers. (B. 34, 1246).
- $C_6H_3O_2N_2$  \*9) 2,4-Diketo-1,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin ( $\alpha$ -Dimethylpluracil). Sm. 220—222° (A. 323, 162 C. 1902 [2] 889).  
\*18) 2,4-Diketo-3,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin ( $\beta$ -Dimethyluracil). Sm. 260—262° (A. 323, 161 C. 1902 [2] 889).  
20) 2,4-Diketo-5,6-Dimethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 290° (B. 34, 2813).  
21) Aethylester d.  $\alpha$ -Cyan- $\beta$ -Amidoakrylsäure. Sm. 130°; Sd. 216°<sub>19</sub> (Bl. [3] 25, 41).
- $C_6H_3O_3N_2$  18) Methylester d.  $\alpha$ -Cyan- $\alpha$ -Oximidoessigäthyläthersäure. Sd. 121 bis 124°<sub>24</sub> (A. ch. [7] 1, 533; Bl. [3] 27, 1014 C. 1902 [2] 1413). — \*I, 678.  
19) Aethylester d. Oximidocyanessigmethyläthersäure. Sd. 111—112°<sub>17</sub> (Bl. [3] 27, 1015 C. 1902 [2] 1413).  
20) Propylester d.  $\alpha$ -Oximidocyanessigsäure. Sm. 106—107°. Na (Bl. [3] 27, 1011 C. 1902 [2] 1413).
- $C_6H_5O_3N_4$  5) 1,2-Diacetyl-3-Imido-5-Ketotetrahydro-1,2,4-Triazol. Sm. oberh. 300° (G. 31 [1] 489).  
6) 5-Oximido-4-Imido-2,6-Diketo-1,3-Dimethylhexahydro-1,3-Diazin (C. 1901 [1] 548).  
7) Monoacetylderivat d. 5,6-Diamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin (Acetyldiamidouracil) (D.P.R. 126797 C. 1902 [1] 81).
- $C_6H_3O_4Br_2$  \*1) Anhydrid d.  $\alpha$ -Brompropionsäure. Sd. 123—124°<sub>10</sub> (B. 34, 2074).  
 $C_6H_3O_4N_4$  7) 1,2-Diacetyl-3,6-Diketohehexahydro-1,2,4,5-Tetrazin. Fl. (G. 31 [2] 555 C. 1902 [1] 480).  
8) Di[Methylamid] d. Bisanhydronitroessigsäure. Sm. 162° (B. 34, 879).
- $C_6H_3O_4Br_6$  1) Di[ $\beta\beta$ -Tribrom- $\alpha$ -Oxyäthyläther] d.  $\alpha\beta$ -Dioxyäthan (Bromalglykolat). Sd. 145—150° (C. 1902 [1] 710).
- $C_6H_3O_4Hg$  1) Acetat d. Oxymerkurimaleinsäure. Hg + 2H<sub>2</sub>O (B. 35, 2576 C. 1902 [2] 570).
- $C_6H_3O_8N_6$  \*1) Dulcithexanitrat. Sm. 94—95° (C. r. 133, 541).  
\*2) Mannithexanitrat. Sm. 105—106° (C. r. 133, 516, 541).
- $C_6H_5N_2S$  3) 6-Merkapto-2,4-Dimethyl-1,3-Diazin. Sm. 230° (B. 35, 1578 C. 1902 [1] 1237).  
4) 6-Merkapto-4,5-Dimethyl-1,3-Diazin. Sm. 265° (B. 34, 2825).  
5) 2-Merkapto-4,6-Dimethyl-1,3-Diazin. Sm. 198° (B. 34, 3962 C. 1902 [1] 127).
- $C_6H_5N_2S_2$  1) 2,6-Dimerkapto-4,5-Dimethyl-1,3-Diazin. Zers. oberh. 300° (B. 34, 2828).  
 $C_6H_5N_3Cl$  3) 6-Chlor-2-Amido-4,5-Dimethyl-1,3-Diazin. Sm. 215—216° (B. 34, 2817).  
4) 2-Chlor-6-Amido-4,5-Dimethyl-1,3-Diazin. Sm. 182° (B. 34, 2821).
- $C_6H_5ON$  9) Amid d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. Sm. 168° (B. 34, 2222).  
11) Nitril d.  $\gamma$ -Keto- $\beta$ -Methylbutan- $\beta$ -Carbonsäure. Sd. 163—164° (C. 1901 [1] 96).  
12) 2-Methylamidomethylfuran (Methyl-2-Furfurylamin). Sd. 65—67°<sub>21</sub> HCl, HBr, Pikrat (B. 35, 411 C. 1902 [1] 662).
- $C_6H_5ON_3$  \*6) Amid d. 3,5-Dimethylpyrazol-1-Carbonsäure. Sm. 111,4—112,4° (B. 34, 3980 C. 1902 [1] 192).  
8) Methyläther d. 5-Amido-2-Oxy-4-Methyl-1,3-Diazin. Sm. 88—89,5° (B. 34, 1251).  
C 43,1 — H 5,4 — O 9,6 — N 41,9 — M. G. 167.
- $C_6H_5ON_5$  1) 5-Formylamido-2,6-Diamido-4-Methyl-1,3-Diazin. Sm. noch nicht bei 270° (B. 34, 1256).
- $C_6H_5O_2N$  24) 4-Keto-3,5,5-Trimethyl-4,5-Dihydroisoxazol. Sd. 151° (A. 319, 240 C. 1902 [1] 188).  
25)  $\alpha$ -Cyanvaleriansäure. Ca (C. 1901 [1] 675).



- $C_6H_9O_2N$  26) Nitril d.  $\beta$ -Acetoxybuttersäure. Sd.  $210^{\circ}_{765}$  (C. 1898 [1] 984; J. 1890, 667). — \*I, 812.
- $C_6H_9O_2N_3$  27) Nitril d.  $\gamma$ -Acetoxybuttersäure. Sd.  $237^{\circ}$  (J. 1890, 667 C. 1898 [1] 984). — \*I, 813.
- $C_6H_9O_2N_3$  \*7) Histidin.  $HCl + H_2O$  (H. 32, 70, 560).
- 9) 4-Imido-2,6-Diketo-1,3-Dimethylhexahydro-1,3-Diazin (C. 1901 [1] 548).
- $C_6H_9O_3N$  10) Amid d. 5-Keto-3-Aethyl-4,5-Dihidropyrazol-1-Carbonsäure. Sm.  $197^{\circ}$  (C. 1901 [1] 1195).
- 12)  $\epsilon$ -Nitro- $\delta$ -Keto- $\beta$ -Methyl- $\beta$ -Penten ( $\alpha$ -Nitromesityloxyd). Sd.  $95-96^{\circ}_{23}$  (A. 319, 248 C. 1902 [1] 189).
- 13) Verbindung (aus 2,6-Dimethyl-1,4-Pyron-3,5-Dicarbonsäurediäthylester). Sm.  $164^{\circ}$ .  $Ag + 2H_2O$  (C. 1902 [2] 647).
- $C_6H_9O_3Cl$  \*3) Aethylester d. Acetylchloroessigsäure. Kupfermethyolat (B. 35, 542 C. 1902 [1] 626; J. pr. [2] 65, 531 C. 1902 [2] 345).
- $C_6H_9O_3Br$  \*3) Aethylester d.  $\alpha$ -Brom- $\beta$ -Ketopropan- $\alpha$ -Carbonsäure. Sd.  $124-127^{\circ}_{25}$  (A. 318, 377).
- $C_6H_9O_4N$  10) Verbindung (aus Crotonsäureäthylester). Sd.  $100-106^{\circ}_{13}$  (Bl. [3] 25, 646, 805).
- $C_6H_9O_4N_3$  \*2) Nitrit d. 5-[ $\beta$ -Oxyisobutyl]-1,2,3,6-Dioxdiazin? Sm.  $128-129^{\circ}$  u. Zers. (A. 319, 242 C. 1902 [1] 189).
- 4) Aethylester d. Guanidinoxomalonensäure (B. 35, 3602 C. 1902 [2] 1411).
- $C_6H_9O_4Br$  12)  $\gamma$ - oder  $\delta$ -Brombutan- $\alpha$ - $\gamma$ -Dicarbonsäure. Sm.  $112^{\circ}$  (B. 34, 429).
- $C_6H_9O_4Br_3$  1)  $\alpha$ -Acetat- $\beta$ -[ $\beta\beta$ -Tribrom- $\alpha$ -Oxyäthyläther] d.  $\alpha\beta$ -Dioxyäthan (Bromalglykolacetat). Sd.  $168-169^{\circ}$  (C. 1902 [1] 710).
- $C_6H_9O_5N_3$  C 35,5 — H 4,4 — O 39,4 — N 20,7 — M. G. 203.
- 1) Nitrat d. 4-Methyl-5-[ $\alpha$ -Oxyisopropyl]-1,2,3,6-Dioxdiazin (Mesitylnitrosatglyoximhyperoxyd). Fl. (A. 319, 239 C. 1902 [1] 189).
- $C_6H_9O_{15}N_5$  C 18,4 — H 2,3 — O 61,4 — N 17,9 — M. G. 391.
- $C_6H_9O_{16}N_5$  1) Pentanitrat d. Rhamnit (C. r. 133, 641).
- $C_6H_9O_{16}N_5$  \*1) Mannitpentanitrat. Sm.  $77-79^{\circ}$  (C. r. 133, 516, 541).
- $C_6H_9N_3S$  6) 6-Amido-2-Merkapto-4,5-Dimethyl-1,3-Diazin. Zers. oberh.  $300^{\circ}$  (B. 34, 2821).
- 7) 2-Amido-6-Merkapto-4,5-Dimethyl-1,3-Diazin. Sm.  $270^{\circ}$  (B. 34 2818).
- $C_6H_{10}ON_2$  \*8) Nitril d.  $\gamma$ -Oximido- $\beta$ -Methylbutan- $\beta$ -Carbonsäure. Sm.  $100^{\circ}$  (B. 35, 3726 C. 1902 [2] 1404).
- 10) 5-Keto-3-Propyl-4,5-Dihidropyrazol. Sm.  $196^{\circ}$  (C. r. 133, 165).
- 11) 5-Keto-3-Methyl-4-Aethyl-4,5-Dihidropyrazol. Sm.  $190^{\circ}$  (C. r. 135, 110 C. 1902 [2] 5 2).
- $C_6H_{10}O_2N_2$  \*6) Laktimid. Sm.  $274^{\circ}$  (B. 34, 442; H. 34, 350 C. 1902 [1] 631).
- \*14)  $\delta$ -Nitroimido- $\beta$ -Methyl- $\beta$ -Penten (Mesitylnitrimin) (A. 319, 231 C. 1902 [1] 188).
- 19)  $\gamma$ -Acetylhydrazon- $\beta$ -Oxy- $\alpha$ -Buten. Sm.  $166^{\circ}$  (B. 35, 350 C. 1902 [1] 568).
- 20) 4-Oximido-3,5,5-Trimethyl-4,5-Dihydroisoxazol (Isomesitylnitrimin). Sm.  $156-157^{\circ}$  (A. 319, 236 C. 1902 [1] 188).
- $C_6H_{10}O_2N_4$  10) 3-Methylpuron. Zers. oberh.  $260^{\circ}$  (B. 34, 280).
- 11) 3-Methylisopuron +  $H_2O$  (B. 34, 282).
- $C_6H_{10}O_2Br_2$  \*14)  $\gamma\delta$ -Dibrom- $\beta$ -Methylbutan- $\beta$ -Carbonsäure. Sm. bei  $100^{\circ}$  (Soc. 81, 256 C. 1902 [1] 810).
- $C_6H_{10}O_2J_2$  \*1) Diepikodhydrin (B. 34, 1394).
- $C_6H_{10}O_2S_4$  \*1) Aethyldioxydisulfocarbonat. Sm.  $28-29^{\circ}$  (B. 35, 2186 C. 1902 [2] 264).
- $C_6H_{10}O_2Hg$  1) Verbindung (aus d. Verb.  $C_6H_{10}O_2Hg_2$ ). Sm.  $190^{\circ}$  (B. 34, 2915).
- $C_6H_{10}O_2Hg_2$  1) Verbindung (aus Quecksilberdipropylenoxydbromid) (B. 34, 2915).
- $C_6H_{10}O_3N_2$  14) Verbindung (aus Aethylendiamin u. Maleinsäureanhydrid). Sm.  $90-110^{\circ}$  u. Zers. (G. 24 [1] 403). — \*I, 778.
- $C_6H_{10}O_4N_2$  8) Amid d.  $\alpha\gamma$ -Dioxypropan- $\alpha\gamma$ -Methylenäther- $\beta\beta$ -Dicarbonsäure (Methylenmalonamid) (A. 316, 243).
- $C_6H_{10}O_5S_2$  \*2)  $\beta$ -Dithiodilaktysäure. Sm.  $154^{\circ}$  (C. 1902 [2] 1360).
- $C_6H_{11}ON$  \*25) isom. Leucinimid. Sm.  $295-296^{\circ}$  (H. 32, 594).
- 31) Nitril d.  $\gamma$ -Oxybutteräthyläthersäure. Sd.  $185^{\circ}$  (C. 1898 [1] 984). — \*I, 813.

- $C_6H_{11}OJ$  3)  $\zeta$ -Jod- $\beta$ -Ketohehexan. Sd.  $117^{\circ}_{14}$  (B. 35, 2685 C. 1902 [2] 590).  
 $C_6H_{11}O_2N$  \*11) l-Hexahydropyridin-2-Carbonsäure. Sm.  $264-265^{\circ}$ . HCl, (2HCl,  $PtCl_4 + 2H_2O$ ),  $Cu + 3H_2O$  (B. 34, 3169).  
 \*16) Hygrinsäure (B. 35, 621 C. 1902 [1] 590).  
 28)  $\alpha$ -Nitro- $\delta$ -Methyl- $\alpha$ -Penten. Sd.  $80-81^{\circ}_{10}$  (C. r. 134, 1227 C. 1902 [2] 21).  
 $C_6H_{11}O_2N_3$  29) Amid d.  $\alpha$ -Oxy- $\beta$ -Methyl- $\beta$ -Buten- $\alpha$ -Carbonsäure. — \*I, 756.  
 \*31) Amid d. Tetrahydropyrrrol-2,2-Dicarbonsäure (B. 35, 621).  
 $C_6H_{11}O_2Cl$  18) Chlormethylester d. Isovaleriansäure. Sd.  $171^{\circ}_{745}$  (Bl. [3] 27, 871 C. 1902 [2] 934).  
 19)  $\beta$ -Methylbutylester d. Chlorameisensäure. Sd.  $140-145^{\circ}$  u. Zers. (C. 1901 [1] 428).  
 20) Methylpropylcarbinolester d. Chlorameisensäure. Sd.  $140-141^{\circ}$  (C. 1901 [1] 1302).  
 21) Methylisopropylcarbinolester d. Chlorameisensäure. Sd.  $130-132^{\circ}$  (C. 1901 [1] 1302).  
 22) Diäthylcarbinolester d. Chlorameisensäure. Sd.  $131-133^{\circ}$  (C. 1901 [1] 1302).  
 $C_6H_{11}O_2Br$  \*11) Aethylester d.  $\alpha$ -Brombuttersäure. Sd.  $177,5^{\circ}$  (B. 34, 4040).  
 $C_6H_{11}O_2J$  5) Aethylester d.  $\alpha$ -Jodbuttersäure (C. 1901 [1] 666).  
 $C_6H_{11}O_2N$  \*7) Aethylester d.  $\alpha$ -Nitrosoisobuttersäure. Sm.  $89^{\circ}$  (B. 34, 1867).  
 \*8) Aethylester d.  $\alpha$ -Oximidobuttersäure. Sm.  $58^{\circ}$ ; Sd.  $125-130^{\circ}_{10}$  (C. r. 135, 181 C. 1902 [2] 575).  
 \*10) Aethylester d. Imidoxyessigäthyläthersäure. Sd.  $75-77^{\circ}_{25}$  (Soc. 79, 702).  
 19) Monamid d. Aethan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm.  $72,5^{\circ}$  (B. 35, 848 C. 1902 [1] 745).  
 20) Butylmonamid d. Oxalsäure.  $Ca + 2H_2O$ , Butylaminsalz (A. ch. [7] 3, 296). — \*I, 759.  
 21) Säure (aus  $\alpha$  Pipekolin). Sm.  $103,5^{\circ}$  (B. 26, 2995). — \*I, 666.  
 $C_6H_{11}O_3N_3$  6) Verbindung (aus Kreatin u. Formaldehyd). Zers. oberh.  $250^{\circ}$  (B. 35, 2897 C. 1902 [2] 1053).  
 $C_6H_{11}O_5N$  5) Verbindung (aus d. Lakton d. Chlortriacetylgalaktosensäure). Sm.  $227^{\circ}$  u. Zers. (B. 35, 947 C. 1902 [1] 859).  
 $C_6H_{11}O_5N_3$  2) Aethylester d. Guanidinmesoxalsäure. Zers. oberh.  $195^{\circ}$  (B. 35, 3602 C. 1902 [2] 1411).  
 $C_6H_{11}O_6N_3$  4) Trinitroisohexan. Sm.  $67^{\circ}$  (B. 35, 388 C. 1902 [1] 564).  
 5) isom. Trinitroisohexan. Sm.  $85^{\circ}$  (B. 35, 388 C. 1902 [1] 564).  
 6) isom. Trinitroisohexan. Sm.  $89,5^{\circ}$  (B. 35, 388 C. 1902 [1] 564).  
 7) isom. Trinitroisohexan. Sm.  $94,5-95^{\circ}$  (B. 35, 388 C. 1902 [1] 564).  
 $C_6H_{11}NS$  5) norm. Amylsenfö. Sd.  $193,4^{\circ}$  (KALCKHOFF, Privatmittheilung). — \*I, 724.  
 $C_6H_{11}NS_2$  4) Dimethyläther d. Allylimidomethylidimerkaptomethan. Sd.  $220$  bis  $222^{\circ}$  (C. r. 134, 110 C. 1902 [1] 413).  
 $C_6H_{12}ON_2$  6) l-Nitroso-2-Methylhexahydropyridin. Sd.  $123^{\circ}_{31}$  (B. 35, 2780 C. 1902 [2] 998).  
 7) Isopropylidenhydrazid d. Propionsäure. Sm.  $101^{\circ}$  (J. pr. [2] 64, 406 C. 1902 [1] 22).  
 $C_6H_{12}O_2N_2$  \*2)  $\beta\gamma$ -Dioximidohehexan. Sm.  $170-171^{\circ}$  (G. 31 [1] 405).  
 \*4)  $\gamma\delta$ -Dioximidohehexan. Sm.  $185^{\circ}$  (J. pr. [2] 63, 367; G. 31 [1] 459).  
 \*16) Amid d. Butan- $\alpha\alpha$ -Dicarbonsäure. Sm.  $184^{\circ}$  (B. 35, 850 C. 1902 [1] 746).  
 \*17) Amid d. Butan- $\alpha\delta$ -Dicarbonsäure. Sm.  $222^{\circ}$  (A. 317, 58).  
 28) Dimethyläther d.  $\alpha\delta$ -Dioximidobutan. Fl. (B. 34, 1493).  
 29) s-Dipropionylhydrazin. Sm.  $136^{\circ}$ ; Sd.  $215-217^{\circ}_{25}$  (J. pr. [2] 64, 406 C. 1902 [1] 22).  
 $C_6H_{12}O_2N_4$  4) Diamid d. Hexahydro-1,4-Diazin-1,4-Dicarbonsäure (Dicarbamin-piperazin) (J. pr. [2] 53, 20). — \*I, 730.  
 $C_6H_{12}O_2N_6$  C 36,0 — H 6,0 — O 16,0 — N 42,0 — M. G. 200.  
 1)  $\beta\gamma$ -Disemicarbazonbutan. Sm.  $278-279^{\circ}$  (B. 34, 3977 C. 1902 [1] 192).  
 $C_6H_{12}O_2Br_2$  4)  $\beta\epsilon$ -Dibrom- $\gamma\delta$ -Dioxyhexan (B. 35, 1341 C. 1902 [1] 1048).  
 $C_6H_{12}O_3N_2$  7) Aethylester d. Amidoacetylamidoessigsäure. Sm.  $88-89^{\circ}$ . HCl (B. 34, 2872).  
 $C_6H_{12}O_4N_2$  16) Diamid d.  $\delta\delta$ -Dioxybutan- $\alpha\alpha$ -Dicarbonsäure. Sm.  $140,5^{\circ}$  (B. 34, 1979).

- $C_6H_{12}O_4N_2$  17) Diamid d. d- $\alpha\beta$ -Dioxyäthandimethyläther- $\alpha\beta$ -Dicarbonsäure (Soc. 79, 960).
- $C_6H_{12}O_4Hg_2$  1) bim. Quecksilber- $\gamma$ -Oxypropenyloxydhydrat. Salze siehe (B. 33, 1361, 1642, 2696; 34, 1393).
- $C_6H_{12}O_5N_4$  \*1) Dinitrotetramethylazoxymethan (B. 34, 1913).
- $C_6H_{12}N_2S_4$  \*1) Disulfid d. Aethylamidodithioameisensäure (Diäthylthiuramdisulfid). Sm. 75° (B. 35, 821 C. 1902 [1] 712).
- 2) Disulfid d. Dimethylamidodithioameisensäure (Tetramethylthiuramdisulfid). Sm. 146° (B. 35, 820 C. 1902 [1] 712).
- 3) Dimethyläther d. Di[Methylimidomerkaptomethyl]disulfid (N-Dimethyl-S-Dimethylisothiuramdisulfid). Sd. 100°<sub>12</sub> (B. 35, 828 C. 1902 [1] 713).
- $C_6H_{13}ON$  \*14) Amid d. Capronsäure. Sm. 98° (B. 34, 183).
- 22)  $\epsilon$ -Oximido- $\beta$ -Methylpentan. Sd. 90—91°<sub>20</sub> (C. r. 134, 1227 C. 1902 [2] 22).
- 23) N-Propylisoacetoxim. + NaJ (Soc. 79, 634).
- 24) Propyläther d.  $\beta$ -Oximidopropan. Sd. 116,5° (Soc. 79, 634).
- 25) Isobutylamid d. Essigsäure. Sd. 225—227°<sub>745</sub>. HCl, Na (Soc. 79, 402).
- $C_6H_{13}ON_3$  5)  $\gamma$ -Semicarbazonpentan. Sm. 139° (B. 34, 2122).
- $C_6H_{13}OCl$  \*4)  $\gamma$ -Chlor- $\beta$ -Oxy- $\beta\gamma$ -Dimethylbutan (C. 1902 [2] 20).
- $C_6H_{13}O_2N$  \*18) l-Leucin (H. 33, 186).
- \*19) r- $\alpha$ -Amido- $\gamma$ -Methylvaleriansäure. Sm. 290—291° u. Zers. (B. 34, 446; A. 316, 156; 319, 64; C. 1902 [1] 270; C. r. 133, 1231 C. 1902 [1] 335; H. 35, 304 C. 1902 [2] 263).
- \*25) Diäthylamidoessigsäure. Cu + 3H<sub>2</sub>O (B. 35, 609).
- \*40)  $\beta$ -Nitro- $\beta$ -Methylpentan. Sd. 170—180°<sub>756</sub> (J. pr. [2] 63, 233).
- 48)  $\delta$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylpentan. Sm. 57,5—58,5° (M. 23, 755 C. 1902 [2] 1096).
- 49)  $\beta$ -Methyläther d.  $\gamma$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylbutan. Sm. 92—93°; Sd. 190°<sub>49</sub> (B. 35, 3722 C. 1902 [2] 1403).
- 50) d- $\alpha$ -Amido-norm. Capronsäure (B. 34, 3767 C. 1902 [1] 30).
- 51) l- $\alpha$ -Amido-norm. Capronsäure. Sm. 296° (H. 17, 523; B. 34, 3765 C. 1902 [1] 29).
- 52)  $\alpha$ -Amido- $\beta$ -Methylvaleriansäure (C. r. 134, 122 C. 1902 [1] 412).
- 53) Betain d. Dimethyläthylamidoessigsäure. Sm. 229—231° (B. 35, 606 C. 1902 [1] 573).
- 54) Betain d.  $\beta$ -Trimethylamidopropionsäure + H<sub>2</sub>O. Sm. 126°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 35, 610 C. 1902 [1] 573). — II, 1196.
- 55) Methylster d.  $\beta$ -Dimethylamidopropionsäure. Sd. 154,5° (B. 35, 609 C. 1902 [1] 573).
- 56) Methylster d. Methyläthylamidoessigsäure. Sd. 151—152° (B. 35, 595, 600, 607 C. 1902 [1] 572, 573).
- 57) Aethylster d.  $\alpha$ -Amidobuttersäure. Sd. 61,5°<sub>11</sub>. Pikrat (B. 34, 443).
- 58) Aethylster d.  $\beta$ -Amidobuttersäure. Sd. 59—60°<sub>12,5</sub> (B. 34, 444, 3755).
- 59) Aethylster d. Dimethylamidoessigsäure. Sd. 149—150° (B. 35, 599 C. 1902 [1] 572).
- 60) Aethylster d. Isopropylamidoameisensäure (C. 1901 [2] 260).
- $C_6H_{13}O_2N_3$  \*3) Lysatinin (H. 35, 192 C. 1902 [1] 1238).
- 4)  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\beta$ -Methylbutan. Sm. 164—165° (B. 35, 3725 C. 1902 [2] 1404).
- $C_6H_{13}O_3N$  \*2)  $\epsilon$ -Nitro- $\delta$ -Oxy- $\beta$ -Methylpentan (C. r. 134, 1227 C. 1902 [2] 21).
- 8)  $\delta$ -Nitro- $\epsilon$ -Oxy- $\beta$ -Methylpentan. Sd. 141°<sub>32</sub>. Na (C. 1902 [1] 400).
- 9)  $\epsilon$ -Oximido- $\beta\gamma$ -Dioxy- $\beta$ -Methylpentan. Fl. (M. 22, 532).
- 10) Aethylster d.  $\alpha$ -Hydroxylamidoisobuttersäure. Fl. (B. 34, 1867).
- $C_6H_{13}O_5N$  \*4) Chitosamin (B. 34, 3840 C. 1902 [1] 70; B. 35, 176 C. 1902 [1] 433; H. 34, 157 C. 1902 [1] 298).
- 8) isom. Galaktosamin. Oxalat (H. 32, 428).
- $C_6H_{13}O_6N$  \*1) d-Glykosaminsäure (Chitaminsäure) (B. 35, 3803 C. 1902 [2] 1415).
- 1-Glykosaminsäure. Zers. oberh. 250° (B. 35, 3802 C. 1902 [2] 1415).
- 9) r-Glykosaminsäure (B. 35, 3804 C. 1902 [2] 1416).
- $C_6H_{13}O_7N$  C 34,1 — H 6,2 — O 53,1 — N 6,6 — M. G. 211.
- 1) Dipropionylorthosalpetersäure. Sd. 140° (D.R.P. 137 100 C. 1902 [2] 1438).

- $C_6H_{15}O_7N$  2) Diacetylpropionsäure. Sd. 140—141°<sub>731</sub> (B. 35, 2528 C. 1902 [2] 439).
- $C_6H_{15}NS_2$  \* 2) Isoamylamidodithioameisensäure. Isoamylaminsalz. (Sm. 108—109°) (B. 35, 822 C. 1902 [1] 712).
- 4) Dimethyläther d. Propylimidodimerkaptomethan. Sd. 219°. (2HCl, PtCl<sub>4</sub>) (C. r. 134, 110 C. 1902 [2] 413).
- 5) Dimethyläther d. Isopropylimidodimerkaptomethan. (HCl, HgCl<sub>2</sub>), (HCl, 2HgCl<sub>2</sub>), (HJ, HgJ<sub>2</sub>), Pikrat (Bl. [3] 27, 62 C. 1902 [1] 577).
- 6) Diäthyläther d. Methylimidodimerkaptomethan. Sd. 215°. (2HCl, PtCl<sub>4</sub>), (HJ, HgJ<sub>2</sub>), Pikrat (C. r. 134, 110 C. 1902 [1] 413; Bl. [3] 27, 61 C. 1902 [1] 577).
- 7) Methylester d. Diäthylamidodithioameisensäure. Sm. 2°; Sd. 256° (C. r. 134, 715 C. 1902 [1] 977; Bl. [3] 27, 349 C. 1902 [2] 591).
- $C_6H_{13}N_3S$  3)  $\alpha$ -Thiosemicarbazonpentan. Sm. 65°. Ag (C. 1902 [2] 341; B. 35, 2052 C. 1902 [2] 104).
- 4)  $\delta$ -Thiosemicarbazon- $\beta$ -Methylbutan. Sm. 52—53°. Ag (C. 1902 [2] 341; B. 35, 2052 C. 1902 [2] 105).
- $C_6H_{14}ON_2$  \* 11) Aethyl-sec. Butylnitrosamin ( $\beta$ -Aethylnitrosamidobutan). Sd. 202 bis 203°<sub>790</sub> u. Zers. (J. pr. [2] 63, 198).
- 14)  $\delta$ -Oximido- $\beta$ -Amido- $\beta$ -Methylpentan (Diacetonaminoxim). Sm. 58° (55—56°); Sd. 133—135°<sub>17</sub>. H<sub>2</sub>SO<sub>4</sub>, Oxalat (B. 34, 301, 792; M. 23, 10 C. 1902 [1] 802).
- 15) Dimethylamid d. Dimethylamidoessigsäure. Sd. 99—100°<sub>34</sub> (B. 35, 596 C. 1902 [1] 572).
- $C_6H_{14}O_2N_2$  \* 7) Lysin. (2HCl, PtCl<sub>4</sub>) (H. 33, 561; H. 34, 117 C. 1902 [1] 57; B. 35, 3401 C. 1902 [2] 1305).
- 10)  $\alpha$ -Aethyläther d.  $\beta$ -Hydroxylamido- $\alpha$ -Imido- $\alpha$ -Oxy- $\beta$ -Methylpropan. 2HCl (B. 34, 1867).
- 11)  $\epsilon$ -Amido- $\epsilon$ -Oximido- $\delta$ -Oxy- $\beta$ -Methylpentan ( $\alpha$ -Oxycapronsäureamidoxim). Sm. 176,5°. Cu (A. 321, 369 C. 1902 [1] 1276).
- 12)  $i$ - $\alpha$ -Diamidocapronsäure. HCl, Pikrat (C. 1902 [1] 985; B. 35, 3774 C. 1902 [2] 1414).
- 13) Dimethylamid d. Dimethylamidooxyessigsäure. Sd. 80°<sub>12</sub> (B. 35, 1384 C. 1902 [1] 1090).
- $C_6H_{14}O_2N_4$  \* 1) d-Arginin. Cu(NO<sub>3</sub>)<sub>2</sub> + 3H<sub>2</sub>O (H. 32, 72, 278; 33, 561; H. 35, 697 C. 1902 [1] 727; H. 34, 134 C. 1902 [1] 300; H. 35, 223 C. 1902 [2] 287).
- 7) i-Arginin. HNO<sub>3</sub> (H. 32, 476).
- $C_6H_{15}ON$  \* 2)  $\delta$ -Amido- $\beta$ -Oxy- $\beta$ -Methylpentan. Sm. 35°; Sd. 174°. HCl, (2HCl, PtCl<sub>4</sub>), Oxalat (M. 23, 756 C. 1902 [2] 1097).
- \* 11)  $\beta$ -Aethylhydroxylamidobutan (Aethyl-sec. Butylhydroxylamin). Sd. 155—158°<sub>750</sub>. HCl, Oxalat (J. pr. [2] 63, 196; B. 34, 2504).
- \* 12)  $\beta$ -Dipropylhydroxylamin. Sm. 28,5—29,5°; Sd. 69—70°<sub>17-20</sub>. HCl, HBr (J. pr. [2] 63, 107).
- 14)  $\epsilon$ -Amido- $\delta$ -Oxy- $\beta$ -Methylpentan. Sd. 198—200°<sub>765</sub>. (2HCl, PtCl<sub>4</sub>), Pikrolonat (C. 1902 [1] 400).
- 15)  $\delta$ -Amido- $\epsilon$ -Oxy- $\beta$ -Methylpentan. Sd. 198—200°<sub>768</sub>. (2HCl, PtCl<sub>4</sub>), Pikrolonat (C. 1902 [1] 400).
- 16)  $\gamma$ -Amido- $\beta$ -Oxy- $\beta$ -Dimethylbutan. Sm. 10°; Sd. 160—161°<sub>254</sub> (C. 1899 [1] 1064). — \* I, 650.
- 17)  $\beta$ -Butylamido- $\alpha$ -Oxyäthan ( $\beta$ -Oxyäthylbutylamin). Fl. Pikrat, Pikrolonat (A. 315, 112).
- 18)  $\beta$ -Isobutylamido- $\alpha$ -Oxybutan. Fl. Pikrat, Pikrolonat (A. 315, 119).
- 19) Base (aus Ketohexamethylenimin). Sm. 55—56°; Sd. 238—241°. (2HCl, PtCl<sub>4</sub>) (A. 324, 295 C. 1902 [2] 1507).
- $C_6H_{15}O_2N$  \* 1) Aethylidi- $\beta$ -Oxyäthylamin. Pikrolonat (A. 315, 127).
- 4) Dimethyläther d.  $\beta$ -Dimethylamido- $\alpha$ - $\alpha$ -Dioxyäthan. Sd. 137,5° (B. 35, 602 C. 1902 [1] 572).
- 5)  $\beta$ -Oxyäthyläther d.  $\beta$ -Dimethylamido- $\alpha$ -Oxyäthan. Sd. 150—200° (B. 34, 3483 Anm.).
- $C_6H_{15}O_4P$  3) Di[ $\alpha$ -Oxyisopropyl]unterphosphorigesäure. Sm. 185—186°. Na + 3H<sub>2</sub>O, La, Pb + 2H<sub>2</sub>O, Ag (C. r. 133, 220, 818 C. 1902 [1] 21).
- $C_6H_{15}O_5N$  2)  $\zeta$ -Amido- $\alpha\beta\gamma\delta$ -Pentaoxyhexan (Glucamin; Glykamin). Sm. 127—128°. (2HCl, PtCl<sub>4</sub>), Pikrat, Oxalat, Cu<sub>2</sub> (Bl. [3] 25, 589; C. r. 134, 291 C. 1902 [1] 565).

- $C_6H_{15}O_5N$  3)  $\zeta$ -Amido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (Galaktamin). Sm. 139°.  $HCl + H_2O$ , (2HCl,  $PtCl_4$ ,  $H_2SO_4$ , Oxalat +  $2H_2O$ , Pikrat (*C. r.* 135, 691 *C.* 1902 [2] 1356).
- $C_6H_5O_3P$  2) Phosphomannitsäure. Ba +  $2H_2O$  (*C.* 1902 [1] 1318).
- $C_6H_{10}O_4N_6$  C 18,2 — H 4,0 — O 56,6 — N 21,2 — M. G. 396.
- 1) Verbindung (aus Guanidin und Glyoxylsäure). Sm. 160° u. Zers. (*B.* 35, 3606 *C.* 1902 [2] 1412).

## — 6 IV —

- $C_6HO_4N_3Br_3$  3) 1,2,3-Tribrom-4,5-Dinitrobenzol. Sm. 160° (*B.* 35, 1133 *C.* 1902 [1] 915).
- 4) 1,2,3-Tribrom-4,6-Dinitrobenzol. Sm. 150° (*Am.* 26, 51).
- $C_6HO_4N_3J_3$  \*1) 1,3,5-Trijod-2,4-Dinitrobenzol. Sm. 210° (*Am.* 26, 60).
- $C_6HO_3N_3Br_3$  \*1) 2,4,6-Tribrom-3,5-Dinitro-1-Oxybenzol. Sm. 194° (*R.* 21, 255 *C.* 1902 [2] 518).
- $C_6HO_6N_3Cl_2$  1) 2,4-Dichlor-1,3,5-Trinitrobenzol. Sm. 128—129° (D.R.P. 137 108 *C.* 1902 [2] 1486).
- $C_6HO_6N_3Br_2$  1) 2,4-Dibrom-1,3,5-Trinitrobenzol. Sm. 135° (*Am.* 26, 49).
- $C_6H_2O_3N_3J_3$  1) 3,4,5-Trijod-1-Nitrobenzol. Sm. 105° (*B.* 34, 3347).
- $C_6H_2O_3N_3Cl_4$  1) 2,4,6-Trichlor-1-Chlornitramidobenzol. Sm. 53—54° (*Soc.* 81, 966 *C.* 1902 [2] 354, 698).
- $C_6H_2O_3N_3Br_4$  1) 2,3,4,6-Tetrabrom-1-Nitramidobenzol. Sm. 136° u. Zers. (*Soc.* 81, 812 *C.* 1902 [1] 1325).
- $C_6H_2O_4N_3Br_2$  \*5) 4,6-Dibrom-1,3-Dinitrobenzol. Sm. 117° (*Am.* 26, 3, 48).
- $C_6H_2O_4N_3Cl_3$  1) 2,4,6-Trichlor-3,5-Dinitro-1-Amidobenzol. Sm. 162° (*R.* 21, 255 *C.* 1902 [2] 518).
- $C_6H_2O_4N_3Br_3$  1) 2,4,6-Tribrom-3,5-Dinitro-1-Amidobenzol. Sm. 230° (*R.* 21, 255 *C.* 1902 [2] 518).
- 2) 2,4,6-Tribrom-3-Nitro-1-Nitramidobenzol. Sm. 108—109° u. Zers. (*Soc.* 81, 812 *C.* 1902 [1] 1325).
- $C_6H_2O_4N_3Cl$  1) 3-Chlor-2,4,6-Trinitro-1-Oxybenzol. Sm. 119° (*R.* 21, 293 *C.* 1902 [2] 519).
- $C_6H_2O_4N_3Br$  1) 3-Brom-2,4,6-Trinitro-1-Oxybenzol. Sm. 144° (*R.* 21, 293 *C.* 1902 [2] 520).
- $C_6H_3ON_2Br_3$  4) 2,4,6-Tribrom-1-Nitrosamidobenzol. Sm. 85—86° u. Zers.  $HCl$  (*B.* 35, 2973 *C.* 1902 [2] 1104).
- 5) anti-2,4,6-Tribromdiazobenzol.  $K$  (*B.* 35, 2972 *C.* 1902 [2] 1104).
- 1) Carbonylferrocyanwasserstoff. Salze siehe (*A. ch.* [6] 17, 94; *Bl.* 47, 756; [3] 21, 472; *C. r.* 129, 963). — I, 1423; \*I, 796.
- $C_6H_3O_2NBr_2$  8) 2,6-Dibrom-4-Nitroso-1-Oxybenzol. Sm. 168—175°.  $K + H_2O$  (*Soc.* 79, 687).
- $C_6H_3O_2NJ_2$  4) 2,5-Dijod-1-Nitrobenzol. Sm. 109—110° (*C. r.* 135, 178 *C.* 1902 [2] 580).
- 5) 3,5-Dijod-1-Nitrobenzol. Sm. 95—96° (*B.* 34, 3345).
- $C_6H_3O_2N_3Cl_3$  3) 2,4,6-Trichlor-1-Nitramidobenzol. Sm. 135° u. Zers. Na, Ba +  $H_2O$  (*Soc.* 81, 495 *C.* 1902 [1] 492, 1327; *Soc.* 81, 810 *C.* 1902 [2] 110).
- $C_6H_3O_2N_3Br_3$  \*2) 4,5,6-Tribrom-2-Nitro-1-Amidobenzol. Sm. 165,5—166° (*Soc.* 81, 499 *C.* 1902 [1] 864).
- \*6) 2,3,6-Tribrom-4-Nitro-1-Amidobenzol. Sm. 155—155,5° (*Soc.* 81, 499 *C.* 1902 [1] 864).
- 7) 2,4,6-Tribrom-1-Nitramidobenzol. Sm. 143—144° u. Zers. Na, Ba +  $H_2O$  (*Soc.* 81, 492 *C.* 1902 [1] 863, 1326; *Soc.* 81, 808 *C.* 1902 [2] 110).
- $C_6H_3O_2NJ_2$  \*3) 2,6-Dijod-4-Nitro-1-Oxybenzol. Sm. 156,5° (*C. r.* 134, 359 *C.* 1902 [1] 638).
- 4) 5-Jod-3-Nitro-1-Jodosobenzol. Sm. 118°. Nitrat, Sulfat, Chromat (*B.* 34, 3407).
- $C_6H_3O_2NJ_2$  2) 5-Jod-3-Nitro-1-Jodobenzol. Sm. 187° (*B.* 34, 3409).
- $C_6H_3O_4N_2J$  \*2) 4-Jod-1,2-Dinitrobenzol. Sm. 74,5° (*B.* 34, 2179).
- \*3) 4-Jod-1,3-Dinitrobenzol. Sm. 90,5° (*R.* 20, 357).
- $C_6H_3O_4N_3Br_2$  1) 4,6-Dibrom-2-Nitro-1-Nitramidobenzol. Sm. 91—92°. Ba +  $H_2O$  (*Soc.* 81, 811 *C.* 1902 [1] 1325).



- $C_6H_5O_3NBr_2$  1)  $\beta$ -Dibrom- $\beta$ -Nitro-1,2,4-Trioxybenzol. Sm. 164° u. Zers. (B. 34, 2839).
- $C_6H_5O_3N_2Br$  \*2) 2-Brom-4,6-Dinitro-1,3-Dioxybenzol. Sm. 193° (R. 21, 290 C. 1902 [2] 513).
- $C_6H_4ONCl$  \*3) Chlorid d. Pyridin-3-Carbonsäure. Sm. 245° u. Zers. (M. 22, 113).
- 4) Chlorid d. Pyridin-2-Carbonsäure. Sm. 220° (M. 22, 112).
- 5) Chlorid d. Pyridin-4-Carbonsäure. Sm. 270° (M. 22, 114).
- $C_6H_4ONBr$  \*1) 2-Brom-1-Nitrosobenzol (B. 34, 3879 C. 1902 [1] 116).
- \*2) 4-Brom-1-Nitrosobenzol (B. 34, 3879 C. 1902 [1] 116).
- \*3) 3-Brom-1-Nitrosobenzol (B. 31, 1517 Ann.). — \*II, 45.
- $C_6H_4OClJ$  2) 3-Chlor-1-Jodosobenzol (B. 26, 1948). — \*II, 39.
- 3) 4-Chlor-1-Jodosobenzol (B. 26, 1948). — \*II, 39.
- $C_6H_4OCl_2Hg_2$  \*1) 4-Oxy-1,3-Phenylendiquecksilberchlorid. Zers. bei 258° (C. 1901 [1] 452).
- 2) 3-Brom-1-Jodosobenzol (B. 26, 1948). — \*II, 39.
- $C_6H_4OBrJ$  \*1) 2-Jod-1-Nitrobenzol. Sm. 54° (R. 20, 353).
- $C_6H_4O_2NJ$  \*2) 3-Jod-1-Nitrobenzol. Sm. 34,5° (R. 20, 354).
- \*3) 4-Jod-1-Nitrobenzol. Sm. 173,1°; Sd. 287°<sub>725</sub> (B. 34, 2177; R. 20, 353).
- $C_6H_4O_2N_2Cl_2$  \*4) 4,6-Dichlor-2-Nitro-1-Amidobenzol. Sm. 100° (B. 34, 2855).
- 12) 2,4-Dichlor-1-Nitramidobenzol. Sm. 55–56°. Ba + 3 $\frac{1}{2}$ H<sub>2</sub>O (Soc. 81, 812 C. 1902 [1] 1325).
- $C_6H_4O_2N_2J_2$  \*2) 2,6-Dijod-4-Nitro-1-Amidobenzol. Sm. 243–244° (B. 34, 3344).
- 3) 4,6-Dijod-2-Nitro-1-Amidobenzol. Sm. 154° (Bl. [3] 27, 964 C. 1902 [2] 1198).
- $C_6H_4O_2ClJ$  3) 3-Chlor-1-Jodobenzol. Explodiert bei 233° (B. 26, 1950). — \*II, 39.
- $C_6H_4O_2Cl_2Hg_2$  1) 1,3-Dioxyphenyldi[Quecksilberchlorid]. Zers. bei 200° (B. 35, 2866 C. 1902 [2] 1039).
- $C_6H_4O_3BrJ$  2) 3-Brom-1-Jodobenzol. Explodiert bei 230° (B. 26, 1950). — \*II, 39.
- $C_6H_4O_3Br_2S_3$  1) Säure (aus den Verb. C<sub>6</sub>H<sub>3</sub>Br<sub>2</sub>S<sub>3</sub>). Sm. 162° u. Zers. NH<sub>4</sub> (B. 34, 216).
- $C_6H_4O_3J_2S$  1) Jodid d. 4-Jodbenzol-1-Sulfonsäure. Sm. 95° (J. pr. [2] 65, 87 C. 1902 [1] 581).
- $C_6H_4O_3NCl$  \*3) 6-Chlor-2-Nitro-1-Oxybenzol. Sm. 70–71° (C. 1901 [1] 149).
- $C_6H_4O_3NJ$  \*2) 6-Jod-2-Nitro-1-Oxybenzol. Sm. 110° (C. r. 134, 359 C. 1902 [1] 638).
- \*5) 2-Jod-4-Nitro-1-Oxybenzol. Sm. 86–87° (C. r. 34, 359 C. 1902 [1] 638).
- 10) 6-Jod-3-Nitro-1-Oxybenzol. Sm. 146–147° (C. 1901 [2] 97).
- $C_6H_4O_3N_2S$  \*6) 1-Diazobenzol-4-Sulfonsäure (B. 34, 11).
- $C_6H_4O_3NCl$  1) 4-Chlor-2-Nitro-1,3-Dioxybenzol. Sm. 128° (Soc. 81, 1000 C. 1902 [2] 698).
- 2)  $\beta$ -Dijod-1-Oxybenzol-2-Sulfonsäure (D.R.P. 45226). — \*II, 491.
- $C_6H_4O_3J_2S$  3) 4,6-Dinitro-1-Oxybenzol-2-Sulfonsäure. K (C. 1901 [2] 797; D.R.P. 128619 C. 1902 [1] 550).
- $C_6H_4O_3N_2S$  4) 2,6-Dinitro-1-Oxybenzol-4-Sulfonsäure (D.R.P. 27271; D.R.P. 114529 C. 1900 [2] 1000). — \*II, 491.
- $C_6H_4NClBr_2$  \*1) 6-Chlor-2,4-Dibrom-1-Amidobenzol. Sm. 95° (Soc. 79, 818, 827).
- \*2) 4-Chlor-2,6-Dibrom-1-Amidobenzol. Sm. 97°; Sd. 301°<sub>700</sub> (Soc. 79, 817, 826).
- 4) 3-Chlor-2,4-Dibrom-1-Amidobenzol. Sm. 88° (Soc. 79, 1304 C. 1902 [1] 34).
- 5) 2-Chlor-3,4-Dibrom-1-Amidobenzol. Sm. 91° (Soc. 79, 1305 C. 1902 [1] 34).
- 6) 6-Chlor-3,4-Dibrom-1-Amidobenzol. Sm. 93° (Soc. 79, 1304 C. 1902 [1] 34).
- $C_6H_4NCl_2Br$  2) 4,6-Dichlor-2-Brom-1-Amidobenzol. Sm. 83,5°; Sd. 273° (Soc. 79, 819).
- 3) 2,4-Dichlor-3-Brom-1-Amidobenzol. Sm. 78°; Sd. 172°<sub>22</sub> (Soc. 79, 1302 C. 1902 [1] 34).
- 4) 4,6-Dichlor-3-Brom-1-Amidobenzol. Sm. 86°; Sd. 163°<sub>16</sub> (Soc. 79, 1302 C. 1902 [1] 34).
- 5) 2,3-Dichlor-4-Brom-1-Amidobenzol. Sm. 77,5° (Soc. 79, 1302 C. 1902 [1] 34).



- $C_6H_4NCl_2Br$  6) **2,5-Dichlor-4-Brom-1-Amidobenzol.** Sm.  $91^\circ$  (*Soc.* **79**, 1301 *C.* 1902 [1] 34).
- 7) **3,5-Dichlor-4-Brom-1-Amidobenzol.** Sm.  $129^\circ$  (*Soc.* **79**, 1303 *C.* 1902 [1] 34).
- $C_6H_4Cl_2BrJ$  2) **3-Brom-1-Dichlorjodosobenzol.** Zers. bei  $104^\circ$  (*B.* **26**, 1947). — \*II, 36.
- $C_6H_5ONBr_2$  \*3) **2,6-Dibrom-4-Amido-1-Oxybenzol.** Zers. bei  $190^\circ$  (*Soc.* **79**, 690).
- \*7) **3,5-Dibrom-6-Oxy-2-Methylpyridin.** Sm. 238—239° u. Zers. (*G.* **31** [1] 175).
- $C_6H_5O_2NBr$  5) **anti-4-Bromdiazobenzol** (*B.* **35**, 2978 *C.* 1902 [2] 1105).
- $C_6H_5OClHg$  \*1) **2-Oxyphenylquecksilberchlorid** (*B.* **35**, 2853 *C.* 1902 [2] 1037).
- $C_6H_5OJF_2$  1) **Benzoljodofluorid.** Zers. bei  $216^\circ$  (*B.* **34**, 2632).
- $C_6H_5O_2NS$  3) **2-Nitro-1-Merkaptobenzol.** Sm.  $45^\circ$  (*R.* **20**, 400 *C.* 1902 [1] 417).
- $C_6H_5O_2NS_2$  1) **2,6-Dimerkaptopyridin-4-Carbonsäure.** Sm.  $230^\circ$ .  $K_2 + \frac{1}{2}C_3H_6O$  (*B.* **35**, 2935 *C.* 1902 [2] 1055).
- $C_6H_5O_2N_2Cl$  \*7) **2-Chlor-4-Nitro-1-Amidobenzol.** Sm.  $105^\circ$ .  $HCl$ ,  $H_2SO_4$ , Oxalat (*C.* 1902 [1] 752).
- $C_6H_5O_2N_2J$  \*3) **2-Jod-4-Nitro-1-Amidobenzol.** Sm.  $105^\circ$  (*B.* **34**, 3344).
- $C_6H_5O_2ClS_2$  1) **4-Chlorbenzol-1-Thiolsulfonsäure.**  $Na + 2H_2O$ . p-Phenylendiamin-salz (*J. pr.* [2] **65**, 89 *C.* 1902 [1] 582).
- $C_6H_5O_2ClHg$  1) **1,3-Dioxyphenylquecksilberchlorid.** Sm.  $123^\circ$  (*B.* **35**, 2866 *C.* 1902 [2] 1039).
- $C_6H_5O_2BrS_2$  1) **4-Brombenzol-1-Thiolsulfonsäure.**  $K$ , p-Phenylendiamin-salz (*J. pr.* [2] **65**, 88 *C.* 1902 [1] 581).
- $C_6H_5O_2JS$  2) **4-Jodbenzol-1-Sulfonsäure.** Sm.  $137^\circ$ .  $Na + 4H_2O$  (*J. pr.* [2] **65**, 86 *C.* 1902 [1] 581).
- $C_6H_5O_2JS_2$  1) **4-Jodbenzol-1-Thiolsulfonsäure.**  $K$ , Anilinsalz, Benzidinsalz (*J. pr.* [2] **65**, 82 *C.* 1902 [1] 581).
- $C_6H_5O_2ClS$  \*2) **3-Chlorbenzol-1-Sulfonsäure.**  $Ba + \frac{1}{2}H_2O$  (*B.* **34**, 2754).
- $C_6H_5O_2NS$  \*1) **2-Nitrobenzol-1-Sulfonsäure.** Sm. bei  $70^\circ$  (*R.* **20**, 125).
- \*3) **4-Nitrobenzol-1-Sulfonsäure.**  $K + H_2O$  (*R.* **20**, 129; *B.* **35**, 651 *C.* 1902 [1] 723).
- $C_6H_5O_2NS_2$  1) **Hydroxylimid d. Benzol-1,3-Disulfonsäure.** Zers. bei  $215^\circ$  (*B.* **35**, 1399 *C.* 1902 [1] 1097).
- $C_6H_5O_2JS$  1) **p-Jod-1-Oxybenzol-2,4[2]-Disulfonsäure.**  $K_2$ ,  $Ba$  (*C.* 1901 [2] 962).
- $C_6H_5O_2NS_2$  4) **1-Nitrobenzol-2,5-Disulfonsäure.**  $Na_2$  (*D.R.P.* 77 192). — \*II, 75.
- $C_6H_5ONBr$  5) **3-Bromphenylhydroxylamin.** Sm.  $66^\circ$  (*B.* **29**, 864). — \*II, 242.
- $C_6H_5O_2N_4S$  1) **8-Thiocarboxyl-2,6-Diketo-3-Methylpurin.** Sm.  $340^\circ$  u. Zers. (*D.R.P.* 133 300 *C.* 1902 [2] 314).
- 2) **8-Merkapto-2,6-Diketo-9-Methylpurin** (9-Methylthioharnsäure).  $Ag$  (*C.* 1901 [1] 1220).
- $C_6H_5O_2N_6Fe$  1) **Methylnitritprussidwasserstoff +  $H_2O$**  (*Z. a. Ch.* **11**, 285; **12**, 167). — \*I, 797.
- $C_6H_5O_2SHg_2$  \*1) **Monoacetat d. Thiophendiquecksilberoxydhydrat.** Zers. bei  $270^\circ$  (*C.* 1901 [1] 454).
- $C_6H_5O_4N_3S$  \*9) **Amid d. 2-Nitrobenzol-1-Sulfonsäure.** Sm. 190—191° (*B.* **34**, 3157; *B.* **35**, 651 *C.* 1902 [1] 723).
- \*10) **Amid d. 3-Nitrobenzol-1-Sulfonsäure.** Sm. 163—164° (*B.* **34**, 3157; *B.* **35**, 651 *C.* 1902 [1] 723).
- \*11) **Amid d. 4-Nitrobenzol-1-Sulfonsäure.** Sm.  $178^\circ$  (*R.* **20**, 129; *B.* **34**, 3157; *B.* **35**, 651 *C.* 1902 [1] 723).
- $C_6H_5O_5NaS$  \*1) **p-Nitrophenylarsinsäure** (*A.* **320**, 294 *C.* 1902 [1] 920).
- 2) **isom.p-Nitrophenylarsinsäure** (*A.* **320**, 294 *C.* 1902 [1] 920).
- $C_6H_5O_5N_2S$  \*2) **2-Nitro-4-Amido-1-Oxybenzol-6-Sulfonsäure** (*C.* 1901 [2] 797).
- 3) **4-Nitro-2-Amido-1-Oxybenzol-6-Sulfonsäure +  $H_2O$ .** Zers. bei  $285^\circ$  (*C.* 1901 [2] 797; *D.R.P.* 127 419 *C.* 1902 [1] 152).
- 4) **6-Nitro-2-Amido-1-Oxybenzol-4-Sulfonsäure** (*D.R.P.* 93 443; *C.* 1901 [1] 1396; *D.R.P.* 127 419 *C.* 1902 [1] 152). — \*II, 493.
- $C_6H_5NClHg$  1) **2-Amidophenylquecksilberchlorid** (*B.* **35**, 2041 *C.* 1902 [2] 114).
- 2) **4-Amidophenylquecksilberchlorid.** Sm.  $188^\circ$  u. Zers. (*C.* 1901 [1] 454; *B.* **35**, 2041 *C.* 1902 [2] 114).
- 3) **polym. 4-Amidophenylquecksilberchlorid** (*B.* **35**, 2041 *C.* 1902 [2] 114).

- $C_6H_7O_2NS$  \*6) Amid d. Benzolsulfonsäure. K, K<sub>2</sub> (B. 34, 3157; Am. 28, 93 C. 1902 [2] 788).
- $C_6H_7O_2NS_2$  2) 1-Amidobenzol-2-Thiolsulfonsäure (C. 1901 [1] 1127).
- $C_6H_7O_2NS$  3) 1-Amidobenzol-4-Thiolsulfonsäure (C. 1901 [1] 1127).
- $C_6H_7O_4NS$  \*3) 1-Amidobenzol-4-Sulfonsäure. + 2HF (A. 315, 376; C. 1901 [2] 279).
- $C_6H_7O_4NS$  4) 3-Amido-1-Oxybenzol-4-Sulfonsäure. Na + H<sub>2</sub>O, Ba + 3H<sub>2</sub>O (D.R.P. 70788, 84143). — \*II, 492.
- 5) 3-Amido-1-Oxybenzol-5-Sulfonsäure. Na, Ba (D.R.P. 79120). — \*II, 492.
- 6) 3-Amido-1-Oxybenzol-6-Sulfonsäure? Na + 3H<sub>2</sub>O, Ba + 3H<sub>2</sub>O (D.R.P. 71229, 74111). — \*II, 492.
- 7) 3-Amido-1-Oxybenzol-?-Sulfonsäure (C. 1902 [2] 1182).
- 8) 4-Amido-1-Oxybenzol-?-Sulfonsäure (D.R.P. 71368). — \*II, 492.
- $C_6H_5O_2N_2S$  3)  $\alpha$ -Nitroso- $\alpha$ -Phenylhydrazin- $\beta$ -Sulfonsäure. K (B. 34, 2353).
- $C_6H_5O_2N_2S$  6) 6-Nitro-1,3-Diamidobenzol-4-Sulfonsäure? (C. 1901 [1] 1127).
- $C_6H_5O_2NS_2$  4) 1-Amidobenzol-2,5-Disulfonsäure. Na<sub>2</sub> (D.R.P. 77192). — \*II, 322.
- $C_6H_5O_2NS_2$  2) 3-Amido-1-Oxybenzol-?-Sulfonsäure (D.R.P. 83447). — \*II, 492.
- 3) isom. 4-Amido-1-Oxybenzol-?-Disulfonsäure. Na<sub>2</sub> (D.R.P. 65236). — \*II, 492.
- $C_6H_5O_2N_2Cl_2$  1) cis-trans-1,4-Dichlor-1,4-Dinitrosohexahydrobenzol. Sm. 108,5° (C. 1901 [2] 762; B. 35, 3108 C. 1902 [2] 1186).
- 2) 1,4-Dichlor-1,4-Bisnitrosylhexahydrobenzol. Zers. bei 160—165° (B. 35, 3109 C. 1902 [2] 1186).
- $C_6H_5O_2N_2Br_2$  1) cis-trans-1,4-Dibrom-1,4-Dinitrosohexahydrobenzol. Sm. 89° u. Zers. (B. 35, 3105 C. 1902 [2] 1186).
- 2) 1,4-Dibrom-1,4-Bisnitrosylhexahydrobenzol. Zers. bei 125° (B. 35, 3107 C. 1902 [2] 1186).
- 3) Mukobromsäureäthylendiamin. Zers. bei 117° (B. 34, 1020).
- $C_6H_5O_2N_2S$  7) 2-Acetylido-4-Keto-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 195° u. Zers. HCl, HJ, HNO<sub>3</sub> (LANGLET, Privatmittheilung). — \*I, 744.
- $C_6H_5O_2N_2S_2$  1) 1,3-Diamidobenzol-4-Thiolsulfonsäure? (C. 1901 [1] 1128).
- $C_6H_5O_2N_4S$  \*1) 5-[ $\beta$ -Methylthioureido]-2,4,6-Triketohexahydro-1,3-Diazin ( $\beta$ -Methylthiopsendoharnsäure) (C. 1901 [1] 1220).
- $C_6H_5O_4N_2Cl_2$  1) cis-trans-1,4-Dichlor-1,4-Dinitrohexahydrobenzol. Sm. 178° u. Zers. (B. 35, 3112 C. 1902 [2] 1186).
- $C_6H_5O_4N_2Br_2$  1) cis-trans-1,4-Dibrom-1,4-Dinitrohexahydrobenzol. Sm. 158° (B. 35, 3107 C. 1902 [2] 1186).
- $C_6H_5O_4N_2S$  3) 4,6-Diamido-1-Oxybenzol-2-Sulfonsäure (D.R.P. 128 619 C. 1902 [1] 550).
- $C_6H_5O_4N_2S_4$  1) 1,3-Diamidobenzol-?-Di[Thiolsulfonsäure] (C. 1901 [1] 1128).
- $C_6H_5O_6N_2S_4$  1) 1,4-Diamidobenzol-?-Di[Thiosulfonsäure]. K<sub>2</sub> + 2H<sub>2</sub>O (C. 1901 [1] 1187).
- $C_6H_5O_{12}N_2S_8$  1) 1,4-Diamidobenzol-2,3,5,6-Tetrathiosulfonsäure. K<sub>4</sub> (D.R.P. 127 856 C. 1902 [1] 387).
- $C_6H_5O_2N_2P$  2) Amid-Phenylamid d. Phosphorsäure (Anilinophosphamsäure). Sm. 157—158° (Soc. 81, 1367 C. 1902 [2] 1197).
- $C_6H_{10}ON_2Cl_2$  \*3) Verbindung (aus Mesitylnitrimin) (A. 319, 235 C. 1902 [1] 188).
- $C_6H_{10}ON_2S$  4) 2-Aethylimido-4-Keto-5-Methyltetrahydrothiazol. Fl. (C. 1899 [2] 804). — \*I, 744.
- $C_6H_{10}O_2NCl$  4) Säure (aus  $\alpha$ -Isocinchonin). HCl + 3H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub>) (M. 22, 1093 C. 1902 [1] 480).
- 5) Aethylester d.  $\beta$ -Chloramidocrotonsäure. 2 isom. Formen. Sm. 52—54° (und 56—58°) (A. 318, 379; B. 33, 265).
- $C_6H_{10}O_2NBr$  \*1) Aethylester d.  $\beta$ -Bromamidocrotonsäure. 2 isom. Formen. Sm. 73—74° (A. 318, 374).
- $C_6H_{10}O_2Cl_2Hg_2$  1) bim. Quecksilber- $\beta$ -Oxypropenylchlorid. 2 + HgCl<sub>2</sub> (B. 33, 1361; 34, 1393).
- $C_6H_{10}O_2Br_2Hg_2$  1) bim. Quecksilber- $\gamma$ -Oxypropenylbromid. Sm. 251° (B. 33, 1361, 2700; 34, 1393).
- $C_6H_{10}O_2J_2Hg_2$  1) bim. Quecksilber- $\gamma$ -Oxypropenyljodid. Sm. 271° (B. 33, 1361, 2700; 34, 1393).
- $C_6H_{11}ONS_2$  1) Propylester d. Acetylamidodithioameisensäure. Sm. 78° (C. 1901 [2] 275).

- $C_6H_{12}ONBr$  1)  $\gamma$ -Brom- $\gamma$ -Nitroso- $\beta$ - $\beta$ -Dimethylbutan. Sm. 129° u. Zers. (B. 35, 3097 C. 1902 [2] 1183).
- $C_6H_9O_2NCl$  4)  $\epsilon$ -Chlor- $\delta$ -Nitro- $\beta$ -Methylpentan. Sd. 209—210° (C. 1902 [1] 400).
- $C_6H_9O_3NBr$  1)  $\delta$ -Brom- $\delta$ -Nitro- $\epsilon$ -Oxy- $\beta$ -Methylpentan. Sd. 159—161°<sub>55</sub> (C. 1902 [1] 400).
- $C_6H_{12}O_4N_2S_2$  \*1) l-Cystin. Cu, 2HCl (C. 1901 [2] 1204; H. 32, 96; H. 34, 155 C. 1902 [1] 301; H. 34, 207 C. 1902 [1] 670; C. 1902 [2] 1360).
- 2) r-Cystin (H. 34, 207 C. 1902 [1] 670).
- $C_6H_{12}O_5NCl$  1) Amid d. Chlorgalaktensäure. Sm. 194,5° u. Zers. (B. 35, 945 C. 1902 [1] 859).
- $C_6H_{12}O_6N_2S$  1) Sulfourethan. Sm. 171°. Na<sub>2</sub>, K<sub>2</sub> (B. 35, 778 C. 1902 [1] 714).
- $C_6H_{14}O_2NCl$  1) Methylesterchlorid d. Trimethylamidoessigsäure. Sm. 98°. — \*I, 656.
- $C_6H_{14}O_2NJ$  \*1) Jodmethylat d. Dimethylamidoessigsäuremethylester. Sm. 153,5—154° (B. 35, 596 C. 1902 [1] 572).
- $C_6H_{15}O_3NS$  \*4) Dipropylsulfaminsäure. Sm. 135° (B. 34, 2503).
- 5) Aethyl-sec. Butylsulfaminsäure. Sm. 89—93° (B. 34, 2504).
- $C_6H_{16}O_5N_2S_3$  1) Verbindung (aus Allylalkohol). (NH<sub>4</sub>)<sub>2</sub> (C. 1902 [2] 931).

## — 6 V —

- $C_6HO_2N_2ClBr_4$  1) 2,3,4,6-Tetrabrom-1-Chlornitramidobenzol. Sm. 61—62° (Soc. 81, 968 C. 1902 [2] 355, 698).
- $C_6H_2O_2N_2ClBr_3$  1) 2,4,6-Tribrom-1-Chlornitramidobenzol. Sm. 61° (Soc. 81, 967 C. 1902 [2] 355, 698).
- $C_6H_2O_2N_2Cl_2Br_2$  1) 4-Chlor-2,6-Dibrom-1-Chlornitramidobenzol. Sm. 56° (Soc. 81, 967 C. 1902 [2] 355, 698).
- $C_6H_2O_2NClJ_3$  1) 5-Jod-3-Nitrophenyljodidchlorid (B. 34, 3406).
- $C_6H_2O_2N_2ClBr_2$  1) 4-Chlor-2,6-Dibrom-3-Nitro-1-Amidobenzol. Sm. 103—104° (Soc. 81, 504 C. 1902 [1] 1053).
- 2) 4-Chlor-2,6-Dibrom-1-Nitramidobenzol. Sm. 137—138° u. Zers. (Soc. 81, 495 C. 1902 [1] 1327; Soc. 81, 811 C. 1902 [1] 1325).
- 3) 6-Chlor-2,4-Dibrom-1-Nitramidobenzol. Sm. 137° u. Zers. (Soc. 81, 494 C. 1902 [1] 1327; Soc. 81, 811 C. 1902 [1] 1325).
- $C_6H_3O_2N_2Cl_2Br$  1) 2,6-Dichlor-4-Brom-1-Nitramidobenzol. Sm. 136—137° u. Zers. Ba + H<sub>2</sub>O (Soc. 81, 494 C. 1902 [1] 1327; Soc. 81, 810 C. 1902 [1] 1325).
- 2) 4,6-Dichlor-2-Brom-1-Nitramidobenzol. Sm. 137—138° u. Zers. Ba + H<sub>2</sub>O (Soc. 81, 495 C. 1902 [1] 1327; Soc. 81, 811 C. 1902 [1] 1325).
- $C_6H_3O_3N_2ClS$  1) 4-Chlordiazobenzol-2-Sulfonsäure (B. 34, 2754).
- 2) 4-Chlordiazobenzol-3-Sulfonsäure (B. 34, 2757).
- $C_6H_3O_3NCl_2S$  1) 4,6-Dichlor-1-Nitrobenzol-3-Sulfonsäure? K (C. 1901 [1] 1127).
- $C_6H_3O_3N_2ClS$  1) 2-Chlor-1,3-Dinitrobenzol-5-Sulfonsäure (C. 1901 [1] 76).
- 2) 4-Chlor-1,3-Dinitrobenzol-5-Sulfonsäure. Ca, Ba (C. 1901 [1] 71, 76).
- $C_6H_4O_2NClS$  \*1) 4-Chlor-2-Nitro-1-Merkaptobenzol. Sm. 122° (R. 20, 400 C. 1902 [1] 417).
- $C_6H_4O_2NClHg$  1) 2-Nitrophenylquecksilberchlorid. Sm. 181—182° (B. 35, 2036 C. 1902 [2] 113).
- $C_6H_4O_2NBrS$  1) 4-Brom-2-Nitro-1-Merkaptobenzol. Sm. 110° (R. 20, 401 C. 1902 [1] 417).
- $C_6H_4O_2NBr_3S$  \*3) Amid d. 2,4,6-Tribrombenzol-1-Sulfonsäure. Na (B. 34, 3158).
- $C_6H_4O_2N_2ClBr$  3) 4-Chlor-6-Brom-2-Nitro-1-Amidobenzol. Sm. 114—115° (Soc. 81, 498 C. 1902 [1] 864).
- 4) 6-Chlor-4-Brom-2-Nitro-1-Amidobenzol. Sm. 114° (Soc. 81, 497 C. 1902 [1] 863).
- 5) 6-Chlor-2-Brom-4-Nitro-1-Amidobenzol. Sm. 177° (Soc. 81, 496 C. 1902 [1] 863).
- $C_6H_4O_2NClS$  \*3) Chlorid d. 4-Nitrobenzol-1-Sulfonsäure. Sm. 79,5—80,5° (76°) (R. 20, 129; B. 35, 653 C. 1902 [1] 723).

$C_6H_5O_3NBrS$	6) 5-Brom-1-Nitrobenzol-2-Sulfonsäure. Sm. 126° (R. 20, 132).
$C_6H_5O_6NCIS$	3) 4-Chlor-2-Nitro-1-Oxybenzol-6-Sulfonsäure (D.R.P. 132423 C. 1902 [2] 170).
	4) 6-Chlor-2-Nitro-1-Oxybenzol-4-Sulfonsäure (C. 1901 [2] 798).
$C_6H_5O_3NJ_2S$	1) $\beta$ -Dijod-1-Amidobenzol-3-Sulfonsäure. (D.R.P. 129808 C. 1902 [1] 900).
	4) $\beta$ -Dijod-1-Amidobenzol-4-Sulfonsäure (C. 1902 [1] 899).
$C_6H_5O_3N_2ClIS$	1) 4-Chlor-3-Nitro-1-Amidobenzol-6-Sulfonsäure <sup>p</sup> (D.R.P. 132968 C. 1902 [2] 315).
$C_6H_5ONCl_2P$	*1) Phenylamid d. Phosphorsäuredichlorid. Sm. 79° (93—94°) (C. 1901 [1] 688; Soc. 81, 1366 C. 1902 [2] 1197).
$C_6H_5O_2NJS$	*3) Amid d. 4-Jodbenzol-1-Sulfonsäure. Sm. 183° (J. pr. [2] 65, 87 C. 1902 [1] 581).
$C_6H_5O_3NCIS$	*6) 4-Chlor-1-Amidobenzol-2-Sulfonsäure. Zers. bei 180°. Ba (B. 34, 2753).
	*7) 4-Chlor-1-Amidobenzol-3-Sulfonsäure. Zers. bei 280°. Ba + 5 H <sub>2</sub> O, Ag (B. 34, 2755).
	8) 4-Chlorphenylsulfaminsäure. Zers. bei 200°. NH <sub>4</sub> , Ba, Ag, p-Chloranilinsalz (B. 34, 2750).
$C_6H_5O_3NJS$	1) $\beta$ -Jod-1-Amidobenzol-4-Sulfonsäure (C. 1902 [1] 899).
$C_6H_5O_4NCIS$	2) 4-Chlor-2-Amido-1-Oxybenzol-6-Sulfonsäure (D.R.P. 132423 C. 1902 [2] 170; D.R.P. 134164 C. 1902 [2] 919).
	2) 6-Chlor-2-Amido-1-Oxybenzol-4-Sulfonsäure (C. 1901 [2] 1106).
$C_6H_7ON_2ClIS$	1) 2-[ $\beta$ -Chlorallyl]imido-4-Ketotetrahydrothiazol. Sm. 149°, HCl (Soc. 79, 556).
$C_6H_7O_3NS_2H_2g$	1) 4-Amidophenylquecksilberthiosulfonsäure. Na (B. 35, 2042 C. 1902 [2] 114).

## — 6 VI —

$C_6H_5O_1NCIBrS$	5) Chlorid d. 5-Brom-1-Nitrobenzol-2-Sulfonsäure. Sm. 100° (R. 20, 132).
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**C<sub>7</sub>-Gruppe.**

$C_7H_6$	*3) Cupren. Sm. 83—84° (86°) (B. 6, 119; 27, 222, 3237; B. 43, 53). — II, 84.
$C_7H_8$	*2) R-Hepten (Cykloheptatrien; Tropiliden). Sd. 116° (B. 34, 135; A. 317, 259; A. 319, 229, C. 1902 [1] 109).
$C_7H_{10}$	*2) 2,3-Dihydro-R-Hepten (Cykloheptadien; Hydrotropiliden). Sd. 120—121° (B. 34, 132; A. 317, 230).
	8) 1,2-Dihydro-3-Methylbenzol. Sd. 111—111,5° <sub>750</sub> (B. 34, 303; B. 35, 1172 C. 1902 [1] 1009).
$C_7H_{12}$	*5) 2,3,4,5-Tetrahydro-R-Hepten. Sd. 114—115° (A. 317, 306).
	*8) 1-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 103—103,5° (B. 35, 2492 C. 1902 [2] 444; B. 35, 2823 C. 1902 [2] 990).
	*13) $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadien. Sd. 92—93° <sub>750</sub> (C. 1901 [2] 624).
	16) Methylhexahydrobenzol <sup>p</sup> Sd. 97° (Am. 25, 289).
	17) 1-Methyl- $\beta$ -Tetrahydrobenzol. Sd. 105—106° <sub>745</sub> (B. 34, 3252).
	18) 3-Methyl-1-Methylen-R-Pentamethylen. Sd. 96—97° (93,5°) (C. 1902 [1] 1222; B. 34, 3950 C. 1902 [1] 115).
$C_7H_{14}$	*1) $\alpha$ -Hepten. Sd. 97—99° (C. r. 135, 88 C. 1902 [2] 503).
	*9) Methylhexahydrobenzol. Sd. 101—102° <sub>748</sub> (J. pr. [2] 64, 128; Am. 25, 257, 266, 301 C. 1901 [1] 818; 1901 [2] 201).
	*10) i-1,3-Dimethyl-R-Pentamethylen (B. 35, 2678 C. 1902 [2] 589).
	24) i-1,3-Dimethyl-R-Pentamethylen. Sd. 90,5—91° (B. 35, 2678 C. 1902 [2] 589).
$C_7H_{16}$	*1) Heptan. Sd. 98° (J. pr. [2] 64, 127; C. 1901 [1] 1143; C. r. 135, 88 C. 1902 [2] 503).

- $C_7H_4O_3$  \*1) 1,2-Phenyleneester d. Kohlensäure. Sm. 118° (B. 35, 3435 C. 1902 [2] 1303).  
 3) isom. 1,3-Phenyleneester d. Kohlensäure. Sm. 202° (B. 35, 3435 C. 1902 [2] 1303).  
 4) polym. 1,4-Phenyleneester d. Kohlensäure =  $(C_7H_4O_3)_n$ . Sm. oberh. 280° (320°) (A. 300, 154; B. 35, 3456 C. 1902 [2] 1303). — \*II, 572.
- $C_7H_4O_6$  \*1) Chelidonsäure +  $H_2O$  (B. 35, 22 C. 1902 [1] 431).  
 $C_7H_3N$  \*2) Nitril d. Benzolcarbonsäure. Sd. 183—186°<sub>735</sub> (C. 1901 [2] 83, 259; Am. 26, 1117; B. 34, 3618; B. 35, 3649 C. 1902 [2] 1457).
- $C_7H_3N_3$  \*1) 1,2,4-Benztriazin. Sm. 74—75° (J. pr. [2] 65, 136 C. 1902 [1] 995).  
 $C_7H_3Cl_1$  \*5) 2,3,4-Trichlor-1-Methylbenzol (Soc. 81, 1327 C. 1902 [2] 1179).  
 \*6) 2,4,5-Trichlor-1-Methylbenzol. Sm. 81—82° (Soc. 81, 1332 C. 1902 [2] 1179).  
 \*7) 3,4,5-Trichlor-1-Methylbenzol. Sm. 44,5—45,5° (Soc. 81, 1336 C. 1902 [2] 1179).  
 8) 2,3,5-Trichlor-1-Methylbenzol. Sm. 45—46°; Sd. 229—231°<sub>737</sub> (Soc. 81, 1329 C. 1902 [2] 1179).  
 9) 2,3,6-Trichlor-1-Methylbenzol. Sm. 45—46° (Soc. 81, 1331 C. 1902 [2] 1179).  
 10) 2,4,6-Trichlor-1-Methylbenzol. Sm. 33—34° (Soc. 81, 1335 C. 1902 [2] 1179).
- $C_7H_6O$  \*1) Aldehyd d. Benzolcarbonsäure. +  $HgCl_2$  (C. 1901 [1] 1226; B. 34, 3733 C. 1902 [1] 5; B. 35, 1591 C. 1902 [1] 1292; B. 35, 3041 C. 1902 [2] 1107).
- $C_7H_6O_2$  \*4) Benzoësäure.  $Hg + H_2O$ ,  $Ag + SbCl_3$ , Hydrazinsalz (B. 35, 1094 C. 1902 [1] 932; B. 35, 1117 C. 1902 [1] 923; B. 35, 2522 C. 1902 [2] 435; B. 35, 2692 C. 1902 [2] 581; B. 35, 3240 C. 1902 [2] 1045; B. 35, 2870 C. 1902 [2] 1040; D.R.P. 136 410 C. 1902 [2] 1371).  
 10) Aldehyd d. Isosalicylsäure (C. 1902 [2] 198).  
 $C_7H_6O_3$  \*2) 2-Oxybenzol-1-Carbonsäure. Te, Wismuthsalz, +  $SbCl_3$  (C. 1901 [2] 413; B. 35, 1123 C. 1902 [1] 924; D.R.P. 133 500 C. 1902 [2] 492; A. 323, 20 C. 1902 [2] 782).  
 \*4) 4-Oxybenzol-1-Carbonsäure (C. 1902 [1] 808).  
 \*8) Aldehyd d. 2,4-Dioxybenzol-1-Carbonsäure. Sm. 134—135° (B. 35, 995 C. 1902 [1] 872).  
 15) Isosalicylsäure. Sm. 154° (C. 1902 [2] 198; J. pr. [2] 65, 304 C. 1902 [1] 1217).
- $C_7H_6O_4$  \*12) Aldehyd d. 2,3,4-Trioxymethylbenzol-1-Carbonsäure. Sm. 161—162° (B. 34, 1445; B. 35, 997 C. 1902 [1] 872).  
 \*14) Aldehyd d. 2,4,6-Trioxymethylbenzol-1-Carbonsäure. Zers. bei 210° (B. 34, 1446).  
 17) Isopyromucylacetat. Sm. 28°; Sd. 152°<sub>30</sub> (Bl. [3] 27, 1511 C. 1902 [2] 343).
- $C_7H_6O_5$  \*2) 2,3,4-Trioxymethylbenzol-1-Carbonsäure +  $\frac{1}{3}H_2O$  (B. 34, 2842).  
 \*4) 3,4,5-Trioxymethylbenzol-1-Carbonsäure (C. 1901 [2] 1286).  
 1) 1,2,4-Trioxymethylbenzol-3-Carbonsäure. Sm. 217—218° u. Zers. (B. 34, 2840).  
 6) Monomethylester d. Furan-2,5-Dicarbonsäure. Sm. 201—202° (Am. 25, 452).
- $C_7H_6N_2$  \*1) Benzimidazol. Sm. 170° (B. 35, 2503 C. 1902 [2] 437).  
 \*2) Indazol. Sm. 146° (B. 34, 797).  
 \*3) Nitril d. Phenylamidoameisensäure +  $\frac{1}{2}H_2O$ . Sm. 47° (J. pr. [2] 65, 370 C. 1902 [1] 1328).  
 7) Phenyldiazomethan. Fl. (B. 35, 903 C. 1902 [1] 856).  
 $C_7H_4N_4$  4) 1-Phenyl-1,2,3,4-Tetrazol. Sm. 65—66° (B. 34, 3120).  
 $C_7H_4Cl_2$  \*3) 2,3-Dichlor-1-Methylbenzol. Sd. 204—206°<sub>735</sub> (Soc. 79, 1127).  
 \*4) 2,4-Dichlor-1-Methylbenzol. Sd. 198—200° (Soc. 79, 1129).  
 \*5) 2,5-Dichlor-1-Methylbenzol. Sm. 5°; Sd. 198—200°<sub>750</sub> (Soc. 79, 1130).  
 \*6) 2,6-Dichlor-1-Methylbenzol. Sd. 198°<sub>780</sub> (Soc. 79, 1131).  
 \*7) 3,4-Dichlor-1-Methylbenzol. Sd. 200—207° (Soc. 79, 1133).  
 \*8) 3,5-Dichlor-1-Methylbenzol. Sm. 26° (Soc. 79, 1133).
- $C_7H_4N$  \*2) Methylenamidobenzol. 2 +  $H_2SO_3$  +  $NaHSO_3$  (A. 316, 124).



- $C_7H_7N$  8) isom. Anhydroformaldehydanilin =  $(C_7H_7N)_2$ . Sm. 120° (C. 1901 [2] 73).
- $C_7H_7N_3$  \*6) Benzylazimid (Benzylazid) (*J. pr.* [2] 63, 431).
- 7) 3, 4-Dihydro-1, 3, 7-Benzotriazin. Sm. 144—145°. (2HCl,  $PtCl_4$ ), (2HCl,  $AuCl_3$ ), 2HJ (*B.* 35, 2839 C. 1902 [2] 996).
- $C_7H_7N_3$  C 52,2 — H 4,3 — N 43,5 — M. G. 161.
- 1) 1-[4-Amidophenyl]-1, 2, 3, 4-Tetrazol. Sm. 155° (*B.* 34, 3121).
- $C_7H_7Cl$  \*2) 2-Chlor-1-Methylbenzol (D.R.P. 133000 C. 1902 [2] 313).
- $C_7H_8O$  \*1) Benzylalkohol (*B.* 35, 1986 C. 1902 [2] 366).
- \*3) 3-Oxy-1-Methylbenzol (C. 1901 [2] 259).
- \*5) Methylphenyläther.  $2 + Al_2Cl_6$ ,  $2 + Al_2Br_3$  (C. 1901 [2] 259; *Am.* 27, 249 C. 1902 [1] 1291).
- $C_7H_8O_2$  \*6) 3, 5-Dioxy-1-Methylbenzol (*Ar.* 240, 548 C. 1902 [2] 1329).
- \*14) 2, 6-Dimethyl-1, 4-Pyron. 2HCl (*B.* 34, 2696, 3309, 3613; *B.* 34, 4190 C. 1902 [1] 263; *B.* 34, 4116 C. 1902 [1] 314; *B.* 35, 1250 C. 1902 [1] 1108; *A.* 322, 312 C. 1902 [2] 428).
- $C_7H_8O_3$  \*2) 2, 4, 6-Trioxo-1-Methylbenzol. Sm. 214° (*A.* 314, 286).
- \*7) 2, 4-Dimethylfuran-3-Carbonsäure. Sm. 122°.  $Ca + 4H_2O$ ,  $Ba + 6H_2O$ , Ag (*B.* 35, 1545, 1551 C. 1902 [1] 1226).
- \*18) Anhydrid d.  $\beta$ -Penten- $\beta$ - $\gamma$ -Dicarbonsäure. Sd. 228—229°.  $Ca + H_2O$ , Ba, Ag (*A.* 315, 213).
- \*25) Aethylester d. Furan-2-Carbonsäure. Sm. 34°; Sd. 193°<sub>756</sub> (*J. pr.* [2] 65, 23 C. 1902 [1] 459).
- 34) P-Oxy-2, 6-Dimethyl-1, 4-Pyron. Sm. 162,5° (*Soc.* 81, 1005 C. 1902 [2] 371, 705).
- 35) Aethyläther d. 3-Oxy-1, 4-Pyron (Ae. d. Pyromekonsäure). Sd. 220 bis 221° (*G.* 32 [1] 57 C. 1902 [1] 937).
- $C_7H_8O_4$  18) Verbindung (aus  $\alpha\gamma$ -Dibrom- $\beta\beta$ -Dimethylpropan und Natriummalonsäurediäthylester). Sm. 105—105,5° (C. 1902 [2] 106).
- $C_7H_8O_5$  5)  $\alpha\beta$ -Anhydrid d. fum. Butan- $\alpha\beta\gamma$ -Tricarbonsäure ( $\alpha\beta$ -A. d.  $\alpha$ -Methyltricarbaldehydsäure). Fl. (*Soc.* 81, 40 C. 1902 [1] 111, 410).
- 6)  $\alpha\beta$ -Anhydrid d. mal. Butan- $\alpha\beta\gamma$ -Tricarbonsäure ( $\alpha\beta$ -A. d. mal.  $\alpha$ -Methyltricarbaldehydsäure). Fl. (*Soc.* 81, 40 C. 1902 [1] 111, 410).
- $C_7H_8O_6$  12)  $\alpha$ -Buten- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 148° (*J. pr.* [2] 66, 107 C. 1902 [2] 732).
- $C_7H_8O_7$  2) Diformalcitronensäure. Sm. 200° (*R.* 20, 338).
- 3) Methylencitronensäure. Sm. 205° u. Zers. (208°).  $Ag_2$  (C. 1902 [1] 300; D.R.P. 129255 C. 1902 [1] 738).
- $C_7H_8N_2$  \*2) Benzylidenhydrazin. Pikrat (*B.* 35, 3236 C. 1902 [2] 1044).
- 5) 2, 3-Dihydro-2, 5-Benzodiazol (Merimin). Fl. 2HCl, (2HCl,  $PtCl_4$ ), (2HCl,  $AuCl_3$ ), Pikrat (*B.* 35, 2848 C. 1902 [2] 997).
- $C_7H_8S$  \*4) 4-Merkapto-1-Methylbenzol. Pb (*Bl.* [3] 27, 690 C. 1902 [2] 447).
- $C_7H_9N$  \*1) Methylamidobenzol (C. 1902 [1] 3; *B.* 35, 707 C. 1902 [1] 717).
- \*2) Benzylamin. HCl (*B.* 34, 2262; *C. r.* 133, 636; *J. pr.* [2] 65, 200 C. 1902 [1] 977; *C. r.* 134, 194 C. 1902 [2] 1313; *B.* 35, 3044 C. 1902 [2] 1108).
- \*3) 2-Amido-1-Methylbenzol (C. 1902 [1] 3).
- \*4) 3-Amido-1-Methylbenzol (C. 1902 [1] 3).
- \*7) 2-Aethylpyridin. Sd. 142—148°. (HCl,  $AuCl_3$ ) (*B.* 35, 1346 C. 1902 [1] 1109).
- \*10) 2, 4-Dimethylpyridin. Sd. 159—159,5°. (HCl, 2HgCl<sub>2</sub>), (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ), Pikrat (*Soc.* 81, 452 C. 1902 [1] 761, 1014).
- \*11) 2, 5-Dimethylpyridin. Sd. 154—155° (159—160°). (2HCl, 5HgCl<sub>2</sub>), (HCl, 6HgCl<sub>2</sub>), (2HCl,  $PtCl_4$  + 2H<sub>2</sub>O), (HCl,  $AuCl_3$ ), Pikrat (*Soc.* 81, 453 C. 1902 [1] 761, 1014; *B.* 34, 3698 C. 1902 [1] 47).
- \*12) 2, 6-Dimethylpyridin. Sd. 142,5°<sub>760</sub>. (HCl, HgCl<sub>2</sub>), (HCl, 3HgCl<sub>2</sub>), (2HCl,  $PtCl_4$ ) (*Soc.* 81, 454 C. 1902 [1] 761, 1014).
- \*13) 3, 4-Dimethylpyridin (*B.* 35, 2849 C. 1902 [2] 997).
- \*1) Phenylguanidin. Sm. 66°. (2HCl,  $PtCl_4$ ) (*Am.* 26, 221).
- $C_7H_9Br$  1) 1-Brom-2, 3-Dihydro-R-Hepten. Sd. 87,5°<sub>20,5</sub> (*A.* 317, 263).
- 2) 2-Brom-2, 3-Dihydro-R-Hepten (Tropilidenhydrobromid). Sd. 74 bis 75°<sub>8-9</sub> (*B.* 34, 136).
- $C_7H_{10}O$  \*3) 2-Keto-5-Methyl-1, 2, 3, 4-Tetrahydrobenzol (*Bl.* [3] 25, 246).
- 8) Trimethylfuran (*Am.* 25, 44).



- $C_7H_{10}O$  9) Methylcyclohexanon. *Sd.* 179—181° (*B.* 35, 2824 *C.* 1902 [2] 990).
- $C_7H_{10}O_2$  14) 1-Keto-6-Oxy-5-Methyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 64—65° (*B.* 35, 1178 *C.* 1902 [1] 990).
- 15)  $\beta\delta$ -Hexadien- $\epsilon$ -Carbonsäure. *Sm.* 90—92°. *Cu, Ag* (*B.* 35, 3639 *C.* 1902 [2] 1409).
- 16) R-Pentamethylen-1-Methylen-carbonsäure. *Sm.* 49—50°; *Sd.* 122°<sub>11</sub>. *Ag* (*C.* 1902 [1] 1222; *A.* 323, 159 *C.* 1902 [2] 843).
- 17) 1-Methyl-2,3-Dihydro-R-Penten-4-Carbonsäure. *Sm.* 42°; *Sd.* 250°. *Ca* + 4H<sub>2</sub>O (*A.* 317, 77).
- 18) Methylester d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. *Sm.* 5°; *Sd.* 174° (*B.* 34, 2221).
- $C_7H_{10}O_3$  \*21) Anhydrid d.  $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. *Sm.* 38—40° (*Soc.* 81, 251).
- \*24) Anhydrid d.  $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure (*Soc.* 79, 753).
- 31) 2-Ketohexahydrobenzol-1-Carbonsäure. *Sm.* 88° u. *Zers.* (*A.* 317, 98).
- 32) 4-Keto-1-Methyl-R-Pentamethylen-3-Carbonsäure. *Fl.* *Cu* (*A.* 317, 79).
- 33) Säure (aus d. Säure C<sub>8</sub>H<sub>10</sub>O<sub>5</sub>). *Krystalle.* *Sd.* 160°<sub>15</sub> (*R.* 21, 246 *C.* 1902 [2] 506).
- 34) Säure (aus d. Triäthylester C<sub>15</sub>H<sub>22</sub>O<sub>7</sub>). *Sd.* 128°<sub>15</sub>. *Ca* + 4H<sub>2</sub>O, *Ag, Brucinsalz* (*M.* 23, 855 *C.* 1902 [2] 1409).
- 35) isom. Säure (aus d. Triäthylester C<sub>15</sub>H<sub>22</sub>O<sub>7</sub>). *Ag, Brucinsalz, Strychninsalz* (*M.* 23, 862 *C.* 1902 [2] 1410).
- 36) Anhydrid einer isom. Dimethylglutarsäure. *Sd.* 165—167°<sub>34</sub> (*C. r.* 134, 1114 *C.* 1902 [2] 26).
- $C_7H_{10}O_4$  \*3) trans-R-Pentamethylen-1,2-Dicarbonsäure. *Sm.* 159°. *Ag<sub>2</sub>* (*J. pr.* [2] 64, 400).
- \*15)  $\beta$ -Penten- $\beta\gamma$ -Dicarbonsäure (Methyläthylmaleinsäure). *Ba* + H<sub>2</sub>O (*A.* 315, 212).
- \*39) Lakton d.  $\alpha$ -Oxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure + H<sub>2</sub>O. *Sm.* 50—80° (112° wasserfrei) (*Soc.* 79, 758; *Soc.* 81, 834 *C.* 1902 [2] 450).
- \*62) isom.  $\gamma$ -Methyl- $\alpha$ -Buten- $\alpha\gamma$ -Dicarbonsäure (Dimethylglutakonsäure) (*B.* 35, 1664 *C.* 1902 [1] 1320).
- \*64) Pilopsäure (Lakton d. Pilomalsäure). *Sm.* 104°. *Ba, Strychninsalz* (*Soc.* 79, 592; *Soc.* 79, 1335 *C.* 1902 [1] 50; *B.* 35, 199 *C.* 1902 [1] 432).
- 69)  $\alpha\gamma$ -Diketohexan- $\alpha$ -Carbonsäure. *K* (*C.* 1902 [2] 189).
- 70)  $\gamma\epsilon$ -Diketo- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. *K* (*C.* 1902 [2] 189).
- 71)  $\alpha$ -Penten- $\beta\gamma$ -Dicarbonsäure + H<sub>2</sub>O? ( $\beta$ -Äthylitakonsäure). *Sm.* 175 bis 176° (*A.* 315, 216).
- 72) isom.  $\gamma$ -Methyl- $\alpha$ -Buten- $\alpha\gamma$ -Dicarbonsäure (Dimethylglutakonsäure). *Sm.* 172° (*C.* 1901 [1] 221; *Soc.* 81, 253 *C.* 1902 [1] 810).
- 73)  $\gamma$ -Methyl- $\alpha$ -Buten- $\beta\gamma$ -Dicarbonsäure (Methylendimethylbernsteinsäure). *Sm.* 140—141° (*Soc.* 81, 55 *C.* 1902 [1] 180, 409).
- 74) 1-Methyl-R-Tetramethylen-3,3-Dicarbonsäure. *Sm.* 157—158° (*C.* 1902 [2] 106).
- 75) Säure (aus Pilomalsäure). *Ba* (*B.* 35, 199 *C.* 1902 [1] 432).
- 76)  $\beta\gamma$ -Lakton d.  $\gamma$ -Oxy- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure (L. d. Oxy-trimethylbernsteinsäure). *Sm.* 118—120° (*B.* 35, 534 *C.* 1902 [1] 630).
- 77)  $\beta\delta$ -Lakton d.  $\delta$ -Oxy- $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. *Sm.* 85°. *Ag* (*Soc.* 81, 259 *C.* 1902 [1] 810).
- 78)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxypropan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. *Sd.* 175°<sub>25</sub>. *Na* (*B.* 34, 1976).
- $C_7H_{10}O_5$  \*17) Chinid. *Sm.* 200° (*B.* 34, 1160).
- \*28) Methyläthylester d. Oxalessigsäure. *Sd.* 110°<sub>13</sub>. *Cu* + H<sub>2</sub>O (*A.* 321, 378 *C.* 1902 [1] 1274).
- 29)  $\beta$ -Methylpropan- $\alpha$ -Carbonsäure- $\beta$ -Ketocarbonsäure. *Ag<sub>2</sub>* (*Soc.* 79, 757).
- 30)  $\alpha\gamma$ -Lakton d.  $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. *Sm.* 140—142° (*Soc.* 79, 756).
- $C_7H_{10}O_6$  \*5) fum. Butan- $\alpha\beta\gamma$ -Tricarbonsäure (fum.  $\alpha$ -Methyltricarballysäure). *Sm.* 179° (184°) (*Soc.* 81, 39 *C.* 1902 [1] 111, 410; *M.* 23, 282 *C.* 1902 [1] 1323).

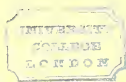
- $C_7H_{10}O_6$  \*6) mal. Butan- $\alpha\beta\gamma$ -Tricarbonsäure (mal.  $\alpha$ -Methyltricarbaldehydsäure). Sm. 134—135° (133°) (Soc. 81, 39 C. 1902 [1] 111, 410; M. 23, 283 C. 1902 [1] 1323).
- \*8) Butan- $\alpha\beta\delta$ -Tricarbonsäure. Sm. 118—120° (J. pr. [2] 66, 109 C. 1902 [2] 732).
- 18)  $\alpha$ -Methylester d. Propan- $\alpha\beta\gamma$ -Tricarbonsäure ( $\alpha$ -M. d. Tricarbaldehydsäure). Fl. Ag<sub>2</sub> (Soc. 81, 36 C. 1902 [1] 111, 410; M. 23, 364 C. 1902 [2] 202).
- 19)  $\beta$ -Methylester d. Propan- $\alpha\beta\gamma$ -Tricarbonsäure. Fl. Ag<sub>2</sub> (Soc. 81, 37 C. 1902 [1] 111, 410; M. 23, 364 C. 1902 [2] 202).
- $C_7H_{10}N_2$  \*9) 2,5-Diamido-1-Methylbenzol (B. 35, 681 C. 1902 [1] 714).
- \*11) 3,4-Diamido-1-Methylbenzol (B. 35, 185 C. 1902 [1] 415).
- \*14) uns-Methylphenylhydrazin (B. 34, 591).
- \*25) Benzylhydrazin. 2HCl (J. pr. [2] 63, 431).
- $C_7H_{10}Br_2$  1) 1,5-Dibrom-2,3,4,5-Tetrahydro-R-Hepten. Sd. 123°<sub>15</sub> (B. 34, 134; A. 317, 256).
- 2)  $\beta$ -Dibrom-2,3,4,5-Tetrahydro-R-Hepten (Tropilidendihibromid). Sd. 125—126°<sub>15</sub> (B. 34, 136; A. 317, 264).
- $C_7H_{10}Br_4$  1) 1,2,3,4-Tetrabrom-R-Heptamethylen. Fl. (A. 317, 257).
- $C_7H_{11}N$  12) Nitril d.  $\delta$ -Methyl- $\beta$ -Penten- $\beta$ -Carbonsäure. Sd. 162—164° (M. 22, 46).
- $C_7H_{11}Br$  1) 1-Brom-1,2,3,4-Tetrahydro-R-Hepten (Hydrotropilidenhydrobromid). Sd. 85°<sub>12</sub> (B. 30, 728; 34, 132; A. 317, 255). — \*I, 53.
- $C_7H_{12}O$  \*9) 2-Keto-1-Methylhexahydrobenzol. Sd. 160—161°<sub>730</sub> (A. 317, 107).
- 17) 3-Keto-1,1-Dimethyl-3-Pentamethylen. Sd. 154—155° (A. 324, 110 C. 1902 [2] 1201).
- 18) Keton (aus Tropilen). Sd. 169—170° (A. 317, 252).
- 19) Aldehyd d.  $\delta$ -Methyl- $\beta$ -Penten- $\beta$ -Carbonsäure. Sd. 146—148° (M. 22, 40).
- 20) Aldehyd (aus d. Säure  $C_7H_{14}O_6$ ). Sd. 149—150° (M. 22, 10).
- $C_7H_{12}O_2$  \*17)  $\beta$ -Methyl- $\beta$ -Penten- $\epsilon$ -Carbonsäure. Sd. 216—218°. Ca + 2H<sub>2</sub>O, Ba + 3H<sub>2</sub>O, Pb + 6H<sub>2</sub>O, Ag (C. 1902 [1] 630).
- \*19)  $\delta$ -Methyl- $\beta$ -Penten- $\beta$ -Carbonsäure. Sd. 212°<sub>749</sub>, Ca, Ag (M. 22, 48).
- \*21) Hexahydrobenzolkarbonsäure. Sm. 30,5—31° (B. 35, 2688 C. 1902 [2] 591).
- \*24) 1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 115—116°<sub>15</sub> (B. 35, 2690 C. 1902 [2] 591).
- \*33) Lakton d.  $\delta$ -Oxy- $\beta$ -Methylpentan- $\beta$ -Carbonsäure. Sm. 50—51° (C. 1901 [1] 1196).
- 62) Heptan- $\alpha\delta\delta\eta$ -Dioxyd. Sd. 157—159° (M. 22, 333).
- 63)  $\gamma\delta$ -Diketoheptan. Sd. 147°<sub>732</sub> (G. 32 [1] 421 C. 1902 [1] 262).
- 64) act. 2-oder-4-Oxy-3-Keto-1-Methylhexahydrobenzol. Sd. 85—86°<sub>12</sub> (B. 35, 2695 C. 1902 [2] 590).
- 65) 1-Isopropyl-R-Trimethylen-2-Carbonsäure (C. 1902 [2] 106).
- 66) Lakton d.  $\epsilon$ -Oxyhexan- $\beta$ -Carbonsäure. Sm. 58—59° (B. 34, 809).
- 67) Lakton d.  $\gamma$ -Oxy- $\gamma$ -Methylpentan- $\alpha$ -Carbonsäure. Sd. 105—106°<sub>18</sub> (C. r. 135, 629 C. 1902 [2] 1359).
- 68) Acetat d.  $\delta$ -Oxy- $\beta$ -Penten. Sd. 136—137°<sub>751</sub> (C. 1901 [2] 622).
- $C_7H_{12}O_3$  \*7) 3-Oxyhexahydrobenzol-1-Carbonsäure. Sm. 125,5° (A. 319, 334 C. 1902 [1] 351).
- \*19) Säure (aus d. Oxyketon  $C_{10}H_{14}O_2$ ). Sm. 51—52°; Sd. 255—260°. Ag (B. 35, 3841 C. 1902 [2] 1462).
- \*23) Gem. Anhydrid d. Essigsäure u. Isovaleriansäure. Sd. 175—181° (B. 34, 178).
- \*35)  $\delta$ -Keto- $\beta$ -Methylpentan- $\alpha$ -Carbonsäure. Sd. 153—154°<sub>11</sub> (B. 35, 2182 C. 1902 [2] 374).
- 38) 3-Keto-1,2-Dioxy-1-Methylhexahydrobenzol. Sm. 52°; Sd. 108 bis 110°<sub>12</sub> (B. 35, 1176 C. 1902 [1] 989).
- 39)  $\delta$ -Oxy- $\beta$ -Hexen- $\epsilon$ -Carbonsäure. Fl. K + 1½H<sub>2</sub>O, Ba (B. 35, 3638 C. 1902 [2] 1409).
- 40) 2-Oxy-1-Methyl-R-Pentamethylen-1-Carbonsäure. Sd. 160°<sub>12</sub>, K, Ca + 2H<sub>2</sub>O, Zn (A. 317, 70).
- 41) 2-Oxy-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 160°<sub>12</sub>, Ca + 2H<sub>2</sub>O (A. 317, 76).

- $C_7H_{12}O_3$  42)  $\epsilon$ -Keto- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sm. 160° u. Zers. (*C. r.* 135, 181 *C.* 1902 [2] 575).
- 43)  $\beta$ -Keto- $\gamma$ -Methylpentan- $\epsilon$ -Carbonsäure ( $\gamma$ -Acetyl- $\beta$ -Methylbuttersäure). Sd. 168—169°<sub>22</sub> (*C.* 1902 [2] 346).
- 44)  $\alpha$ -Aldehyd d.  $\beta$ -Methylbutan- $\alpha$ - $\delta$ -Dicarbonsäure. Sd. 153—155°<sub>12</sub>. Ag (*B.* 34, 1500).
- 45) Methylester d.  $\beta$ -Ketopentan- $\alpha$ -Carbonsäure (M. d. Butyrylessigsäure). Sd. 85°<sub>14</sub> (*Bl.* [3] 25, 649).
- 46) Aethylester d.  $\beta$ -Ketobutan- $\alpha$ -Carbonsäure (Ae. d. Propionylessigsäure). Sd. 191° (*C.* 1901 [1] 1195).
- 47) Aethylester d.  $\alpha$ -Keto- $\beta$ -Methylpropan- $\alpha$ -Carbonsäure (Ae. d. Dimethylbrenztraubensäure). Sd. 65—69°<sub>15</sub> (*C.* 1901 [1] 726).
- 48) Isopropylester d.  $\beta$ -Ketopropan- $\alpha$ -Carbonsäure (I. d. Acetessigsäure). Sd. 75°<sub>15</sub>. Cu (*B.* 20, 46 *C.* 1902 [1] 46).
- $C_7H_{12}O_4$  \*7) Pentan- $\alpha\gamma$ -Dicarbonsäure. Sm. 60—61° (*Soc.* 79, 128).
- \*8) Pentan- $\alpha\delta$ -Dicarbonsäure. Sm. 63° (*Soc.* 79, 130).
- \*9) Pentan- $\alpha\epsilon$ -Dicarbonsäure (*Soc.* 79, 1198).
- \*21)  $\beta$ -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 84° (91°) (*C.* 1902 [1] 1221; *Bl.* [3] 25, 441).
- \*29)  $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 103—104° (*C.* 1901 [1] 821).
- \*42) Diäthylester d. Malonsäure. + 2 SbCl<sub>5</sub> (*B.* 35, 1121 *C.* 1902 [1] 924).
- 51)  $\beta$ -Oxy- $\gamma$ -Keto- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sm. 97—98° (*A.* 314, 389 Ann.).
- 52) isom.  $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 100—106° (*B.* 35, 1664 *C.* 1902 [1] 1320).
- 53) isom. Dimethylglutarsäure (*C. r.* 134, 1114 *C.* 1902 [2] 26).
- 54)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxy- $\beta\beta$ -Dimethylbutan- $\alpha\delta$ -Dicarbonsäure? Sm. 108°. Ca + 4 H<sub>2</sub>O (*Soc.* 79, 765).
- 55)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Oxy- $\beta\beta$ -Dimethylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 154 bis 156° (*Soc.* 79, 767).
- 56) Dipropionat d. Dioxymethan. Sd. 190—192°<sub>745</sub> (*Bl.* [3] 27, 871 *C.* 1902 [2] 934).
- $C_7H_{12}O_5$  \*11)  $\gamma$ -Oxy- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure (*B.* 35, 535 *C.* 1902 [1] 630).
- 38)  $\alpha$ -Oxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Ag<sub>2</sub> (*Soc.* 81, 835 *C.* 1902 [2] 450).
- 39) Pilomalsäure (Isohydrochelidonsäure). Sm. 145°. Ba + 1(2)H<sub>2</sub>O, Pb, Ag<sub>2</sub> (*B.* 34, 734; *Soc.* 79, 1337 *C.* 1902 [1] 50; *B.* 35, 199 *C.* 1902 [1] 432).
- $C_7H_{12}O_6$  \*2) d-Chinasäure. Sm. 164°. Cu (*B.* 34, 1160).
- 13) i-Chinasäure. Ca + 4H<sub>2</sub>O (*B.* 24, 1297; 34, 1160).
- 14)  $\alpha\alpha$ -Dioxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 84°. Ca (*Soc.* 79, 757).
- 15)  $\alpha\gamma$ -Dioxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Ag<sub>2</sub> (*Soc.* 79, 757).
- $C_7H_{13}Br_2$  5) 1-Brom-1-Brommethylhexahydrobenzol? (*Am.* 25, 289).
- $C_7H_{13}Br_1$  5)  $\alpha\beta\gamma\delta$ -Tetrabrom- $\beta\delta$ -Dimethylpentan. Fl. (*C.* 1901 [2] 624).
- $C_7H_{13}S_2$  1) Sulfeton (aus Trithiodibutolakton). Sd. 230—260° (*B.* 34, 3399).
- $C_7H_{13}N$  12) 1-Amido-2,3,4,5-Tetrahydro-R-Hepten. Sd. 166°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 34, 133; *A.* 317, 245).
- 13) 6-Amido-2,3,4,5-Tetrahydro-R-Hepten. (2HCl, PtCl<sub>4</sub>) (*B.* 34, 133).
- 14) Tropilenamin. Sd. 163°<sub>734</sub>. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*A.* 317, 247).
- 15) 1,2,5-Trimethyl-2,3-Dihydropyrrol. Sd. 108—120° (*C.* 1901 [1] 72).
- 16) 1,2,5-Trimethyl- $\beta$ -Dihydropyrrol. Sd. 105—120°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat, Pikrolonat (*B.* 34, 3495; *B.* 35, 1340 *C.* 1902 [1] 1048).
- 17) isom. Dimethylpiperidein. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 35, 616 *C.* 1902 [1] 573).
- $C_7H_{13}Cl$  10)  $\beta$ -Chlor-1-Methylhexahydrobenzol. Sd. 141—142° (*Am.* 25, 286).
- 11)  $\beta$ -Chlor-1,3-Dimethyl-R-Pentamethylen. Sd. 147° (*Am.* 25, 286).
- $C_7H_{13}Br$  7) Brom-R-Heptamethylen. Sd. 75°<sub>13</sub> (*B.* 35, 2691 *C.* 1902 [2] 591).
- $C_7H_{11}O$  \*12)  $\beta$ -Ketoheptan (*J. pr.* [2] 66, 48 *C.* 1902 [2] 520).
- \*29) 1-Oxy-1-Methylhexahydrobenzol. Sd. 156—158° (*B.* 34, 2880).



- $C_7H_{14}O$  32)  $\beta$ -Oxy- $\gamma$ -Methyl- $\gamma$ -Hexen. Sd.  $89^{0}_{55}$  (C. 1901 [2] 622).  
 33) 3-Oxy-1,3-Dimethyl-R-Pentamethylen. Sd.  $143-145^{0}_{760}$  (B. 34, 3950 C. 1902 [1] 115).
- $C_7H_{14}O_2$  34)  $\gamma$ -Keto- $\beta$ -Methylhexan. (Propylisopropylketon). Sd.  $129-130^{0}$  (C. 1901 [1] 724).  
 \*8) Hexan- $\alpha$ -Carbonsäure. Ca, Ag (B. 35, 3187 C. 1902 [2] 1254; Soc. 81, 358 C. 1902 [1] 981).  
 \*14)  $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sd.  $212^{0}$ . Ca (A. 318, 145).  
 \*31) Isopropylester d. Isobuttersäure. Sd.  $120,76^{0}$  (Soc. 81, 783 C. 1902 [2] 105).  
 46) Methylenäther d.  $\beta\gamma$ -Dioxy- $\beta\gamma$ -Dimethylbutan. Sd.  $124-125^{0}$  (Bl. [3] 25, 581).  
 47) Säure (aus Bienenwachs). Sm.  $63^{0}$  (R. 20, 76).  
 48) Aldehyd d.  $\gamma$ -Oxy- $\beta$ -Methylpentan- $\delta$ -Carbonsäure. Sd.  $98-100^{0}_{20}$  (M. 22, 23).  
 49) Aldol (aus Acetaldehyd u. Isovalerialdehyd). Sd.  $100-110^{0}_{25}$  (M. 22, 4).  
 50) Methylester d.  $\alpha$ -Aethylbuttersäure. Sd.  $135-137^{0}_{736}$  (C. r. 134, 850 C. 1902 [1] 1198).  
 51) sec. Butylester d. Propionsäure. Sd.  $132-132,5^{0}$  (Am. 26, 310).
- $C_7H_{14}O_3$  11)  $\delta$ -Oxy- $\beta$ -Methylpentan- $\beta$ -Carbonsäure. Sm.  $103^{0}$ . Na, Ca, Ba, Pb (C. 1901 [1] 1196).  
 \*12)  $\gamma$ -Oxy- $\beta$ -Methylpentan- $\delta$ -Carbonsäure. Sm.  $97^{0}$ . Ca (M. 22, 32).  
 46)  $\epsilon$ -Oxyhexan- $\beta$ -Carbonsäure. Ba (B. 34, 809).  
 47)  $\beta$ -Oxy- $\beta$ -Methylpentan- $\gamma$ -Carbonsäure. Sm.  $71-72^{0}$ ; Sd.  $147^{0}_{10}$  (C. r. 134, 850 C. 1902 [1] 1198).  
 48) Säure (aus d. Aldol  $C_7H_{14}O_3$ ) (M. 22, 8).  
 49) Aethylester d.  $\alpha$ -Oxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sd.  $85-87^{0}_{16}$  C. r. 134, 552 C. 1902 [1] 856).  
 50) Methylcarbonat d.  $\beta$ -Oxypentan. Sd.  $158-162^{0}$  (C. 1901 [2] 249).  
 51) Aethylcarbonat d.  $\beta$ -Oxybutan. Sd.  $151-152^{0}$  (C. 1901 [2] 249).
- $C_7H_{14}O_4$  12) Verbindung (aus Chloraceton, Acetessigester und  $NH_3$ ). Sm.  $82^{0}$  (B. 35, 1546 C. 1902 [1] 1226).
- $C_7H_{14}O_6$  \*7)  $\beta$ -Methyl-d-Glykosid. Sm.  $108-110^{0}$  ( $104-105^{0}$ ) (B. 34, 965).  
 \*13)  $\beta$ -Methylgalaktosid (B. 34, 980).  
 21)  $\beta$ -Methylglykosid (B. 34, 4346 C. 1902 [1] 303).
- $C_7H_{14}O_7$  \*3)  $\alpha$ -Glykoheptose (H. 35, 568 C. 1902 [2] 634).
- $C_7H_{14}N_2$  \*1) Nitril d. Dipropylamidoameisensäure (B. 35, 1282 C. 1902 [1] 1093).  
 7) Nitril d.  $\alpha$ -Diäthylamidopropionsäure. Sd.  $81^{0}_{27}$ . (HCl,  $AuCl_3$ ), Pikrat (J. pr. [2] 65, 196 C. 1902 [1] 983).
- $C_7H_{11}Br_2$  10)  $\beta$ -Dibrom- $\beta\delta$ -Dimethylpentan. Sd.  $83-84^{0}_{7}$  (C. 1901 [2] 624).
- $C_7H_{16}N$  \*10) 1,2,5-Trimethyltetrahydropyrrol. Sd.  $113-117^{0}_{741}$  ( $2HCl$ ,  $PtCl_4$ ), (HCl,  $AuCl_3$ ), Pikrat, Pikrolonat (B. 34, 3500).  
 29) Base (aus  $\beta$ -Methylcyklohexanon- $\alpha$ -Isooxim). Sd.  $155^{0}$ . (HCl,  $AuCl_3$ ) (A. 324, 297 C. 1902 [2] 1507).  
 30) Base (aus  $\beta$ -Methylcyklohexanon- $\beta$ -Isooxim). Sd.  $150-160^{0}$ . ( $2HCl$ ,  $PtCl_4$ ) (A. 324, 299 C. 1902 [2] 1507).
- $C_7H_{16}O$  \*13)  $\gamma$ -Oxy- $\beta\beta\gamma$ -Trimethylbutan (C. 1901 [2] 623).
- $C_7H_{16}O_2$  10)  $\alpha\gamma$ -Dioxy- $\beta\delta$ -Dimethylpentan. Sm.  $58-59^{0}$  (M. 22, 34).
- $C_7H_{16}O_3$  6)  $\alpha\gamma$ -Dioxy- $\beta$ -Oxymethyl- $\beta$ -Methylpentan. Sd.  $135-137^{0}_{15}$  (M. 22, 456).  
 \*5) Volemit. Sm.  $154-155^{0}$  (C. r. 135, 796 C. 1902 [2] 1513).
- $C_7H_{16}O_7$  8) 1,3-Diamido-1-Methylhexahydrobenzol. Sd.  $85-89^{0}_{17}$ .  $2HNO_3$ ,  $H_2SO_4 + 2H_2O$  (B. 34, 302; B. 35, 1171 C. 1902 [1] 1009).
- $C_7H_{16}N_2$  \*1)  $\alpha$ -Amidoheptan. Sd.  $153-156^{0}$ . Pikrat (C. 1902 [1] 256).  
 \*3)  $\delta$ -Amidoheptan. Sd.  $140-141^{0}_{745}$ . HCl (J. pr. [2] 64, 116).  
 \*5)  $\gamma$ -Amido- $\gamma$ -Aethylpentan. HCl, ( $2HCl$ ,  $PtCl_4$ ) (J. pr. [2] 63, 237).  
 \*12)  $\gamma$ -Aethylamidopentan. Sd.  $120-122^{0}_{750}$ . HCl, ( $2HCl$ ,  $PtCl_4$ ), (J. pr. [2] 63, 205).  
 \*13)  $\beta$ -Aethylamido- $\beta$ -Methylbutan. ( $2HCl$ ,  $PtCl_4$ ) (J. pr. [2] 63, 218).
- $C_7H_{18}N_2$  14) Base (aus  $\beta$ -Methylcyklohexanon- $\beta$ -Isooxim). Sd.  $130-140^{0}$ . (HCl,  $AuCl_3$ ) (A. 324, 299 C. 1902 [2] 1507).  
 \*2)  $\delta$ -Hydrazidoheptan. Sd.  $190-192^{0}$  (J. pr. [2] 64, 116).

- $C_7HOC_7$  1) 1,1,3,5,6-Pentachlor-4-Keto-2-Dichlormethyl-1,4-Dihydrobenzol. Sm. 117° (*B.* 34, 4122 *C.* 1902 [1] 190).
- $C_7HO_2Cl_5$  2) Aldehyd d. 1,1,3,5,6-Pentachlor-4-Keto-1,4-Dihydrobenzol-2-Carbonsäure. Sm. 137—138° (*B.* 34, 4119 *C.* 1902 [1] 190).
- $C_7H_2OCl_4$  4) Chlorid d. 2,3,5-Trichlorbenzol-1-Carbonsäure. Sm. 36° (*Soc.* 79, 47). — \*II, 765.
- $C_7H_2OCl_5$  1) 2,4,5,6-Tetrachlor-3-Oxy-1-Dichlormethylbenzol + 3 H<sub>2</sub>O. Sm. 66—68° (86—87° wasserfrei) (*B.* 34, 4128 *C.* 1902 [1] 191).
- $C_7H_2O_2Cl_4$  \*1) 3,5,6-Trichlor-2-Chlormethyl-1,4-Benzochinon. Sm. 266—270° (*B.* 34, 4296).
- 4) 1,1-Anhydrid d. 2,3,5,6-Tetrachlor-4-Keto-1-Oxy-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 165—166° (*A.* 320, 196 *C.* 1902 [1] 652).
- 5) Aldehyd d. 2,4,5,6-Tetrachlor-3-Oxybenzol-1-Carbonsäure. Sm. 189—190° (*B.* 34, 4122 *C.* 1902 [1] 190).
- $C_7H_2O_3Br_4$  3) 1,1-Anhydrid d. 2,3,5,6-Tetrabrom-4-Keto-1-Oxy-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 197—198° (*A.* 320, 219 *C.* 1902 [1] 655).
- $C_7H_2O_3Cl_4$  \*1) 2,4,5,6-Tetrachlor-3-Oxybenzol-1-Carbonsäure. Sm. 172° (*B.* 34, 4127 *C.* 1902 [1] 191).
- $C_7H_2NCl_3$  2) Nitril d. 2,3,5-Trichlorbenzol-1-Carbonsäure. Sm. 87° (*Soc.* 79, 45). — \*II, 765.
- $C_7H_2N_2Br_2$  1) 4,5,6,7-Tetrabrombenzimidazol. Sm. 339° (*C.* 1902 [2] 942).
- $C_7H_3OBr_5$  3) 2,3,5,6-Tetrabrom-4-Oxy-1-Brommethylbenzol (2,3,5,6-Tetrabrom-4-Keto-1-Brommethyl-1,4-Dihydrobenzol). Sm. 182° (*A.* 320, 212 *C.* 1902 [1] 654).
- $C_7H_3O_2Cl_3$  \*4) 2,3,4-Trichlorbenzol-1-Carbonsäure. Sm. 186—187° (129°?) (*Soc.* 81, 1328 *C.* 1902 [2] 1179).
- \*5) 2,4,5-Trichlorbenzol-1-Carbonsäure. Sm. 162—164° (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- \*6) 2,4,6-Trichlorbenzol-1-Carbonsäure. Sm. 160—161° (*Soc.* 81, 1336 *C.* 1902 [2] 1179).
- \*7) 3,4,5-Trichlorbenzol-1-Carbonsäure. Sm. 203° (*Soc.* 81, 1338 *C.* 1902 [2] 1180).
- 10) 2,3,5-Trichlorbenzol-1-Carbonsäure. Sm. 163°. Ca + 4 H<sub>2</sub>O, Ba + 3 H<sub>2</sub>O, Sr + 3 H<sub>2</sub>O, Ag (*Soc.* 79, 44; *Soc.* 81, 1331 *C.* 1902 [2] 1179). — \*II, 765.
- 11) 2,3,6-Trichlorbenzol-1-Carbonsäure. Sm. 163—164° (*Soc.* 81, 1332 *C.* 1902 [2] 1179).
- $C_7H_3O_2Br_3$  \*3) 2,4,6-Tribrombenzol-1-Carbonsäure (*M.* 23, 345 *C.* 1902 [2] 201).
- \*7) Aldehyd d. 2,4,6-Tribrom-3-Oxybenzol-1-Carbonsäure (*B.* 34, 4294 *C.* 1902 [1] 311).
- $C_7H_3O_2Br_5$  2) 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Brommethyl-1,4-Dihydrobenzol. Sm. 195° (*A.* 320, 218 *C.* 1902 [1] 654).
- $C_7H_3O_3Cl_5$  3) Verbindung (aus 1,3,5-Trioxybenzolmonomethyläther). Sm. 72—74° (*M.* 23, 587 *C.* 1902 [2] 740).
- $C_7H_3O_3J_3$  \*1) 2-Trijod-2-Oxybenzol-1-Carbonsäure (*C.* 1902 [1] 869).
- $C_7H_3O_4N_3$  4) Nitril d. 2,4-Dinitrobenzol-1-Carbonsäure. Sm. 104—105° (*B.* 35, 1267 *C.* 1902 [1] 1102; *M.* 23, 559 *C.* 1902 [2] 742).
- $C_7H_3O_5N_3$  \*2) Nitril d. 3,5-Dinitro-2-Oxybenzol-1-Carbonsäure. Sm. 175°. Pikrat, + Naphtalin, + Anthracen, Strychninsalz, Cinchoninsalz (*R.* 20, 416 *C.* 1902 [1] 418).
- $C_7H_3O_7N_3$  C 34,8 — H 1,2 — O 46,5 — N 17,4 — M. G. 241.
- 1) Aldehyd d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 119° (*B.* 35, 1236 *C.* 1902 [1] 1001).
- $C_7H_3O_8N_3$  \*1) 2,4,6-Trinitrobenzol-1-Carbonsäure (D.R.P. 127325 *C.* 1902 [1] 149; *B.* 35, 2712 *C.* 1902 [2] 637).
- $C_7H_3O_{11}N_7$  C 22,3 — H 0,8 — O 50,9 — N 26,0 — M. G. 377.
- 1) 2,3,4,5,6-Pentanitro-1-Methylnitramidobenzol. Sm. 132° u. Zers. (*R.* 21, 266 *C.* 1902 [2] 519).
- $C_7H_5ClBr_4$  1) 6-Chlor-2,3,4,5-Tetrabrom-1-Methylbenzol. Sm. 258—259° (*C.* r. 129, 607).
- $C_7H_4OCl_4$  \*6) Chlorid d. 4-Chlorbenzol-1-Carbonsäure. Sm. 14—16° (*M.* 22, 778).
- $C_7H_4OBr_4$  \*1) 3,4,5,6-Tetrabrom-2-Oxy-1-Methylbenzol. Sm. 208° (*B.* [3] 25, 818).





- $C_7H_4OBr_4$  \*2) 2,4,5,6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 192—193° (*B.* 34, 44).  
 \*3) 2,3,5,6-Tetrabrom-4-Oxy-1-Methylbenzol. Sm. 193—194° (196°). (*B.* 35, 464 *C.* 1902 [1] 646; *A.* 320, 206 *C.* 1902 [1] 653).
- 7) 2,3,5-Tribrom-4-Oxy-1-Brommethylbenzol (2,3,5-Tribrom-4-Keto-1-Brommethyl-1,4-Dihydrobenzol). Sm. 122° (*A.* 320, 207 *C.* 1902 [1] 653).
- $C_7H_4O_2N_2$  \*6) Imid d. Pyridin-3,4-Dicarbonsäure. K (*B.* 35, 1359 *C.* 1902 [1] 1112).
- $C_7H_4O_2Cl_2$  \*3) 2,3-Dichlorbenzol-1-Carbonsäure. Sm. 163° (*Soc.* 79, 1128).  
 \*4) 2,4-Dichlorbenzol-1-Carbonsäure. Sm. 159—160° (*Soc.* 79, 1129).  
 \*5) 2,5-Dichlorbenzol-1-Carbonsäure. Sm. 153° (*Soc.* 79, 1130).  
 \*6) 2,6-Dichlorbenzol-1-Carbonsäure. Sm. 139—140° (*Soc.* 79, 1131).  
 \*7) 3,4-Dichlorbenzol-1-Carbonsäure. Sm. 200—201° (*Soc.* 79, 1133).  
 \*8) 3,5-Dichlorbenzol-1-Carbonsäure. Sm. 182—183° (*Soc.* 79, 1134).
- $C_7H_4O_2Cl_1$  3) 3,4,6-Trichlor-2,5-Dioxy-1-Chlormethylbenzol. Sm. 228° (*A.* 185, 353; *B.* 34, 4296 *C.* 1902 [1] 311). — II, 957; \*II, 578.  
 4) 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 187—188° (*A.* 320, 187 *C.* 1902 [1] 651).
- $C_7H_4O_2Br_2$  \*11) Aldehyd d. 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 181° (*B.* 34, 4294 *C.* 1902 [1] 311).
- $C_7H_4O_2Br_4$  \*2) 3,4,6-Tribrom-2,5-Dioxy-1-Brommethylbenzol (*B.* 34, 4294 *C.* 1902 [1] 311).  
 3) 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 205° (*B.* 34, 256).  
 4) 2,3,5,6-Tetrabrom-4-Oxy-1-Oxymethylbenzol. Zers. oberh. 200° (*A.* 320, 213 *C.* 1902 [1] 654).
- $C_7H_4O_2Hg$  \*1) Inn. Anhydrid d. Quecksilberphenyloxydhydrat-2-Carbonsäure. Sm. 165° (*C.* 1901 [1] 454; 1901 [2] 108; *B.* 35, 2871 *C.* 1902 [2] 1040).
- $C_7H_4O_2Cl_2$  \*2) 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 219,5° (*G.* 32 [1] 544 *C.* 1902 [2] 638).  
 \*5) 2,6-Dichlor-3-Oxybenzol-1-Carbonsäure. Sm. 122—124° (*G.* 32 [1] 549 *C.* 1902 [2] 638).
- $C_7H_4O_2Br_2$  \*3) 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 266° (*M.* 22, 438).  
 7) Dibromisalicylsäure? (*J. pr.* [2] 65, 304 *C.* 1902 [1] 1217).
- $C_7H_4O_2J_2$  \*1) 3,5-Dijod-2-Oxybenzol-1-Carbonsäure (*C.* 1902 [1] 869).
- $C_7H_4O_2Hg$  \*1) 1,3-Anhydrid d. Quecksilber-2-Oxyphenyloxydhydrat-3-Carbonsäure (*B.* 35, 2873 *C.* 1902 [2] 1040).
- $C_7H_4O_2N_4$  3) Nitril d. 3,5-Dinitro-2-Amidobenzol-1-Carbonsäure. Sm. 219° (*R.* 20, 413 *C.* 1902 [1] 418).
- $C_7H_4O_2Cl_2$  4) 2,5-Dichlor-3,4-Dioxybenzol-1-Carbonsäure + 3H<sub>2</sub>O. Sm. 220° (*G.* 31 [2] 98; *G.* 32 [1] 556 *C.* 1902 [2] 639).  
 5) 5,6-Dichlor-3,4-Dioxybenzol-1-Carbonsäure. Sm. 239° u. Zers. (*G.* 31 [2] 101; *G.* 32 [1] 556 *C.* 1902 [2] 639).
- $C_7H_4O_2N_2$  2) 4-Nitro-2-Nitrosobenzol-1-Carbonsäure. Sm. oberh. 300° (*B.* 35, 1267 *C.* 1902 [1] 1102; *M.* 23, 561 *C.* 1902 [2] 742).  
 3) Aldehyd d. 2,4-Dinitrobenzol-1-Carbonsäure. Sm. 72° (68—69°); Sd. 190—210°<sub>10—20</sub>. + NaHSO<sub>3</sub> (*B.* 35, 1228, 1237 *C.* 1902 [1] 1000; *B.* 35, 1266 *C.* 1902 [1] 1102; *M.* 23, 554 *C.* 1902 [2] 742).
- $C_7H_4O_2N_4$  2) 5,7-Dinitro-3-Keto-2,3-Dihydrobenzopyrazol. Zers. bei 185—215° (*G.* 32 [1] 578 *C.* 1902 [2] 583).  
 3) Nitril d. 4,6-Dinitrophenylhydroxylamin-2-Carbonsäure. Sm. 200° (*R.* 20, 415 *C.* 1902 [1] 418).
- $C_7H_4O_6N_2$  \*3) 2,4-Dinitrobenzol-1-Carbonsäure. Sm. 179° (*B.* 35, 2711 *C.* 1902 [2] 637; *M.* 23, 560 *C.* 1902 [2] 742).
- $C_7H_4O_{10}N_6$  \*1) 2,3,4,6-Tetranitro-1-Methylnitramidobenzol. Sm. 145° (*R.* 21, 266 *C.* 1902 [2] 519).
- $C_7H_4N_4Br_2$  2) 4,6-Dibrombenzimidazol + H<sub>2</sub>O. Sm. 225° (wasserfrei) (*C.* 1902 [2] 942).
- $C_7H_4N_4Cl$  4) 4-Chlor-1,3,7-Benzotriazin. Sm. 112° (*B.* 35, 2838 *C.* 1902 [2] 996).
- $C_7H_5ON$  \*2) Anthranil (*B.* 34, 3875 *C.* 1902 [1] 116; *B.* 34, 4015 *C.* 1902 [1] 116; *B.* 34, 3788 *C.* 1902 [1] 40; *B.* 35, 3472 *C.* 1902 [2] 1316).
- \*3) Nitril d. 2-Oxybenzol-1-Carbonsäure. Sm. 98° (*B.* 35, 3649 *C.* 1902 [2] 1457).
- $C_7H_5ON_3$  7) 3-Oximido-1,2-Benzisodiazol (Indiazonoxim). Sm. 160—160,5° u. Zers. (*B.* 34, 1331).



- $C_7H_5ON_3$  8) 4-Keto-3,4-Dihydro-1,3,7-Benzotriazin. Sm. 315—317° (B. 35, 2837 C. 1902 [2] 996).  
9) Aldehyd d. Diazobenzolimid-2-Carbonsäure. Sm. 37,5° (B. 34, 1333, 2293; B. 34, 3874 C. 1902 [1] 116).
- $C_7H_5OCl$  \*3) Aldehyd d. 4-Chlorbenzol-1-Carbonsäure. Sd. 213—215° (J. pr. [2] 65, 258 C. 1902 [1] 1213).
- $C_7H_5OBr_3$  \*1) 2,4,6-Tribrom-3-Oxy-1-Methylbenzol. Sm. 82° (G. 31 [1] 159).  
\*4) 3,5-Dibrom-4-Oxy-1-Brombenzol. Sm. 149° (B. 35, 462 C. 1902 [1] 646).  
5) 2,3,5-Tribrom-4-Oxy-1-Methylbenzol. Sm. 96° (102°) (B. 35, 464 C. 1902 [1] 646; A. 320, 205 C. 1902 [1] 653).
- $C_7H_5OJ_3$  2) Methyläther d. 2,4,6-Trijod-1-Oxybenzol. Sm. 98—99° (C. r. 133, 160).
- $C_7H_5O_2N$  \*1) o-Oxycarbanil. Sm. 138—139° (B. 35, 2752 C. 1902 [2] 640).  
6) Verbindung (aus d. Aldehyd d. 4-Nitrosobenzol-1-Carbonsäure) =  $(C_7H_5O_2N)_x$ . Sm. 204—206° (Am. 28, 46 C. 1902 [2] 701).
- $C_7H_5O_2N_3$  \*4) Diazobenzolimid-2-Carbonsäure. Sm. 144,5° (B. 34, 1337; B. 35, 1890 C. 1902 [2] 50).  
\*5) 1-Diazobenzolimid-3-Carbonsäure. Sm. 159—160° (B. 35, 3718 C. 1902 [2] 1449).  
15) p-Nitroso-2-Oxyindazol. Zers. bei 167° (B. 35, 1894 C. 1902 [2] 50).  
16) 1-Oximido-3-Keto-2,3-Dihydro-2,5-Benzdiazol. Sm. noch nicht bei 260° (B. 35, 2852 C. 1902 [2] 998).
- 17) 2,4-Diketo-1,2,3,4-Tetrahydro-1,3,7-Benzotriazin. (Cinchomeronazid). Sm. noch nicht bei 430°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (M. 16, 709; 17, 189; A. 295, 192; B. 35, 2836, 2844 C. 1902 [2] 996; B. 35, 3847 C. 1902 [2] 1476). — IV, 165.
- $C_7H_5O_2N_3$  3) 1-[4-Nitrophenyl]-1,2,3,4-Tetrazol. Sm. 205° u. Zers. (B. 34, 3121).
- $C_7H_5O_2Cl$  \*2) p-Chlor-2-Methyl-1,4-Benzochinon. Sm. 102° (B. 34, 1653).  
\*3) 2-Chlorbenzol-1-Carbonsäure (Bl. [3] 25, 195).
- $C_7H_5O_2Br$  \*5) 4-Brombenzol-1-Carbonsäure. Hydrazinsalz (B. 35, 3241 C. 1902 [2] 1045; B. 35, 2932 C. 1902 [2] 1046).
- $C_7H_5O_2Br$  \*4) 2,4,6-Tribrom-3,5-Dioxy-1-Methylbenzol. Sm. 104—105° (Ar. 240, 550 C. 1902 [2] 1329).  
\*8) 2,3,5-Tribrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 128° (B. 34, 256).  
9) 2,3,5-Tribrom-4-Oxy-1-Oxymethylbenzol. Sm. 138° (Zers. oberh. 200°) (A. 320, 209 C. 1902 [1] 653).
- $C_7H_5O_2J$  \*2) 2-Jodbenzol-1-Carbonsäure. Na (Bl. [3] 25, 196).  
\*4) 4-Jodbenzol-1-Carbonsäure. Sm. 265° (M. 22, 779).
- $C_7H_5O_2J_3$  \*1) 2,4,6-Trijod-3,5-Dioxy-1-Methylbenzol (C. 1902 [1] 869).
- $C_7H_5O_3N$  \*2) 2-Nitrosobenzol-1-Carbonsäure. Sm. 205—210° u. Zers. (C. 1901 [1] 1190; B. 34, 2042; B. 35, 1081 C. 1902 [1] 932).  
\*3) Aldehyd d. 2-Nitrobenzol-1-Carbonsäure. Sd. 153°<sub>23</sub> (C. 1901 [1] 70, 1190; B. 34, 2040; Ar. 240, 16 C. 1902 [1] 473).  
\*4) Aldehyd d. 3-Nitrobenzol-1-Carbonsäure. Sm. 58°; Sd. 164°<sub>23</sub> (Bl. [3] 25, 854; Ar. 240, 16 C. 1902 [1] 473).  
\*5) Aldehyd d. 4-Nitrobenzol-1-Carbonsäure. Sm. 104° (B. 35, 1238 C. 1902 [1] 1001).
- $C_7H_5O_3Cl$  \*3) 4-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 206—207° (C. 1901 [2] 925).  
\*4) 5-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 172° (G. 32 [1] 542 C. 1902 [2] 638).  
\*5) 6-Chlor-3-Oxybenzol-1-Carbonsäure. Sm. 178° (G. 31 [2] 369; G. 32 [1] 547 C. 1902 [2] 638).  
\*6) 3-Chlor-4-Oxybenzol-1-Carbonsäure. Sm. 169—170° (G. 32 [1] 554 C. 1902 [2] 639).  
\*8) 2-Chlor-3-Oxybenzol-1-Carbonsäure. Sm. 156—157° (G. 32 [1] 546 C. 1902 [2] 638).  
9) 6-Chlor-2-Oxybenzol-1-Carbonsäure. Sm. 166°. NH<sub>4</sub>, K, Ba, Ag (C. 1901 [2] 925).
- $C_7H_5O_3Br$  10) 4-Chlor-3-Oxybenzol-1-Carbonsäure (D.R.P. 74493). — \*II, 903.  
\*4) 3-Brom-4-Oxybenzol-1-Carbonsäure. Sm. 158° (M. 22, 438).  
6) 4-Brom-3-Oxybenzol-1-Carbonsäure (D.R.P. 71260). — \*II, 904.

- $C_7H_5O_3J$  \*1) 3-Jod-2-Oxybenzol-1-Carbonsäure. Sm. 197—198° (B. 35, 2873 C. 1902 [2] 1040).  
 \*2) 5-Jod-2-Oxybenzol-1-Carbonsäure. (C. 1902 [1] 868).
- $C_7H_5O_4N$  \*17) Aldehyd d. 6-Nitro-3-Oxybenzol-1-Carbonsäure. Sm. 166° (B. 34, 4000 C. 1902 [1] 201).
- $C_7H_5O_4N_3$  9) 2-Methyläther d. 5-Nitro-2,4-Dioxy-1-Diazobenzol-1,4-Anhydrid. Zers. bei 178° (Soc. 77, 1173 C. 1901 [2] 96).
- $C_7H_5O_4N_5$  4) Nitril d. 4,6-Dinitrophenylhydrazin-2-Carbonsäure. Zers. bei 280° (R. 20, 415 C. 1902 [1] 418).
- $C_7H_5O_4As$  2) Anhydrophenylarsinsäure-3-Carbonsäure (A. 320, 330 C. 1902 [1] 922).
- $C_7H_5O_5N$  \*4) 5-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 228° (M. 23, 435 C. 1902 [2] 359).  
 16) 4-Nitro-2-Oxybenzol-1-Carbonsäure. Sm. 235° (B. 34, 4352 C. 1902 [1] 313; M. 23, 431 C. 1902 [2] 359).
- $C_7H_5O_5N_3$  3) 2,4-Dinitrobenzaldoxim. Sm. 125° (127—128°) (B. 35, 1234 C. 1902 [1] 1000; B. 35, 1267 C. 1902 [1] 1102; M. 23, 558 C. 1902 [2] 742).  
 4) Amid d. 2,4-Dinitrobenzol-1-Carbonsäure. Sm. 203—204° (M. 23, 560 C. 1902 [2] 742).
- $C_7H_5O_6N$  \*3) 1-Cyan-R-Trimethylen-1,2,3-Tricarbonsäure.  $Ag_3 + H_2O$  (B. 34, 3715).
- $C_7H_5O_6N_3$  \*5) 3,5-Dinitro-2-Amidobenzol-1-Carbonsäure (G. 32 [1] 531 C. 1902 [2] 582).
- $C_7H_5O_7N_3$  \*2) 2,4,6-Trinitro-3-Oxy-1-Methylbenzol (D.R.P. 129283 C. 1902 [1] 690).  
 4) Methyläther d. 2,3,5-Trinitro-1-Oxybenzol. Sm. 155° (Soc. 81, 993 C. 1902 [2] 697).
- $C_7H_5O_8N_3$  2) Monomethyläther d. 2,4,6-Trinitro-1,3-Dioxybenzol. Strychninsalz (R. 21, 259 C. 1902 [2] 519).
- $C_7H_5O_9N_5$  \*1) 2,4,6-Trinitro-1-Methylnitramidobenzol. Sm. 127° (R. 21, 271 C. 1902 [2] 514).  
 C 27,7 — H 1,6 — O 47,5 — N 23,1 — M. G. 303.
- $C_7H_5O_9N_5$  1) 2,4,6-Trinitro-3-Methylnitroamido-1-Oxybenzol. Sm. 180—188° u. Zers. (187°) (R. 8, 275; R. 21, 260 C. 1902 [2] 519). — II, 736.
- $C_7H_5NS$  \*1) Phenylsenföf (B. 34, 2033).
- $C_7H_5N_2Cl$  \*1) 3-Chlorindazol. Sm. 148° (B. 34, 796).
- $C_7H_5ON_2$  \*6) 3-Keto-1,3-Dihydroindazol. Sm. 242—244° u. Zers. (B. 34, 795).  
 10) 2-Oxyindazol. Sm. 139—139,5°. Ag (B. 35, 1891 C. 1902 [2] 50).  
 11) polym. 2-Oxyindazol (B. 35, 1896 C. 1902 [2] 50).  
 12) 3-Keto-2,3-Dihydro-2,5-Benzidiazol +  $H_2O$  (Cinchomeronimidin). Sm. 199—200° (wasserfrei).  $HCl + H_2O$ ,  $(HCl, SnCl_2 + H_2O)$ , Pikrat (B. 35, 2846 C. 1902 [2] 997).
- $C_7H_6ON_4$  7) 2-Oximidomethyl-1-Diazobenzolimid (2-Azidobenzaldoxim). Sm. 103 bis 103,5° (B. 34, 1336; B. 34, 4023 C. 1902 [1] 116).  
 8) Amid d. Diazobenzolimid-2-Carbonsäure. Sm. 135,5—136° (B. 35, 1889 C. 1902 [2] 50).
- $C_7H_6OCl_2$  8) 3-Chlor-4-Oxy-1-Chlormethylbenzol. Sm. 93° (B. 34, 2460).  
 9) 2-Chlor-1-Oxy-2-Chlormethylbenzol. Sm. 112° (D.R.P. 132475 C. 1902 [2] 81).  
 10) 4-Chlor-1-Oxy-2-Chlormethylbenzol. Sm. 85° (D.R.P. 132475 C. 1902 [2] 81).
- $C_7H_6OBr_2$  \*2) 3,5-Dibrom-4-Oxy-1-Methylbenzol. Sm. 49° (A. 320, 204 C. 1902 [1] 653).
- $C_7H_6OJ_2$  \*4) Methyläther d. 2,4-Dijod-1-Oxybenzol. Sm. 68—69° (Bl. [3] 25, 631).  
 5) Methyläther d. 2,6-Dijod-1-Oxybenzol. Sm. 35° (C. r. 134, 358 C. 1902 [1] 638).
- $C_7H_6OS$  \*2) Benzolthiolarbonsäure. Diisobutylaminsalz (C. 1901 [2] 629).
- $C_7H_6OHg$  1) 1,6-Anhydrid d. 6-Oxy-3-Methylphenylquecksilberoxydhydrat (C. 1901 [1] 453; B. 35, 2858 C. 1902 [2] 1038).
- $C_7H_6O_2Br_2$  \*1) 4,6-Dibrom-2,5-Dioxy-1-Methylbenzol. Sm. 149—150° (B. 35, 461 Anm. C. 1902 [1] 646).  
 7) 3,5-Dibrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 134,5° (B. 35, 459 C. 1902 [1] 646).
- $C_7H_6O_3N_2$  \*4) anti-2-Nitrobenzaldoxim. Sm. 95—96° (Soc. 79, 1274; B. 34, 4028 C. 1902 [1] 116).

- $C_7H_5O_3N_2$  \*6) anti-3-Nitrobenzaloxim (*B.* 34, 2028).
- \*16) 4-Amid d. Pyridin-3,4-Dicarbonsäure (*M.* 21, 963; 23, 242; *B.* 35, 2841 *C.* 1902 [2] 996).
- 23) 3-Nitrosobenzhydroxamsäure. Sm. 73—76° u. Zers. (*G.* 31 [2] 35).
- 24) 3-Amid d. Pyridin-3,4-Dicarbonsäure. Sm. 200°. Ag (*B.* 35, 2841 *C.* 1902 [2] 996; *M.* 23, 934 *C.* 1902 [2] 1476).
- $C_7H_5O_3Br_2$  4) Allylester d. Mukobromsäure. Sm. 41° (*B.* 34, 519).
- $C_7H_5O_3N_2$  \*12) 3,5-Dinitroso-2,4-Dioxy-1-Methylbenzol (*C.* 1902 [2] 377).
- \*14) 4-Nitrobenzhydroxamsäure. Sm. 176—177° (*B.* 35, 52 *C.* 1902 [1] 401).
- \*17) 3-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 204° (*R.* 20, 209; *B.* 35, 472 *C.* 1902 [1] 585).
- \*18) 4-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 264°. Na, HCl (*M.* 23, 425 *C.* 1902 [2] 359; *B.* 34, 4352 *C.* 1902 [1] 313).
- \*19) 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 280° (*M.* 23, 425 *C.* 1902 [2] 359; *B.* 34, 4352 *C.* 1902 [1] 313).
- \*20) 2-Nitro-3-Amidobenzol-1-Carbonsäure. Sm. 156—157° (146°) (*B.* 34, 904).
- \*27) 3-Nitrobenzhydroxamsäure. Sm. 153° u. Zers. (151°) (*G.* 31 [2] 33; *B.* 34, 2028).
- 28) Phenylidinitromethan. Sm. 79°. K, Ag (*G.* 31 [1] 262 Anm.; 31 [2] 134).
- 29) 2-Nitrobenzhydroxamsäure (*B.* 35, 53).
- 30) 6-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 183—184° u. Zers. (180° u. Zers.). Na, HCl (*M.* 23, 421 *C.* 1902 [2] 359; *B.* 34, 4351 *C.* 1902 [1] 313; *B.* 35, 472 *C.* 1902 [1] 585).
- 31) Diimid d. Propan- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure. Zers. bei 200°. Ag<sub>2</sub> (*J. pr.* [2] 66, 5 *C.* 1902 [2] 507).
- $C_7H_5O_3S$  \*2) Aldehyd d. Benzol-1-Carbonsäure-2-Sulfonsäure (*C.* 1901 [1] 806).
- $C_7H_5O_3N_2$  \*3) 2,3- oder -2,6-Dinitro-4-Oxy-1-Methylbenzol (*B.* 34, 2241).
- \*7) Methyläther d. 2,3-Dinitro-1-Oxybenzol. Sm. 119° (*Soc.* 81, 992 *C.* 1902 [2] 697).
- \*15) Nitrat d. 4-Nitro-1-Oxymethylbenzol (*M.* 23, 553 *C.* 1902 [2] 742).
- 20) 2,4-Dinitro-1-Oxymethylbenzol. Sm. 114—115° (*B.* 35, 1266 *C.* 1902 [1] 1102; *M.* 23, 553 *C.* 1902 [2] 742).
- 21) 3-Nitro-5-Amido-2-Oxybenzol-1-Carbonsäure. Sm. 240° u. Zers. Na<sub>2</sub> (D.R.P. 85989). — \*II, 900.
- \*2) Benzol-1-Carbonsäure-3-Sulfonsäure (*M.* 23, 339 *C.* 1902 [2] 201).
- $C_7H_5O_6S$  9) 1-Methyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 110,5° (*C.* 1901 [2] 96).
- $C_7H_5O_6N_4$  4)  $\alpha$ -Oximido- $\alpha$ -Amido- $\alpha$ -[3,5-Dinitro-2-Oxyphenyl]methan. Sm. 204° (*B.* 26, 1255 Anm.). — \*II, 896.
- $C_7H_5O_6S$  \*1) 2-Oxybenzol-1-Carbonsäure-5-Sulfonsäure. K + HF, K + 2 HF, Rb + HF (*A.* 315, 372).
- $C_7H_5O_7N_4$  C 32,5 — H 2,3 — O 43,4 — N 21,7 — M. G. 258.
- 1) 2,4,6-Trinitro-3-Methylamido-1-Oxybenzol. Sm. 156° (*R.* 21, 260 *C.* 1902 [2] 519).
- $C_7H_5O_8S_2$  \*2) Benzol-1-Carbonsäure-3,5-Disulfonsäure. Ba (*B.* 35, 2305 *C.* 1902 [3] 2305).
- $C_7H_5NCl_3$  6) 2,4,6-Trichlor-3-Amido-1-Methylbenzol. Sm. 77—78° (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- $C_7H_7ON$  \*1) 2-Nitroso-1-Methylbenzol. Sm. 72,5° (*A.* 316, 279; *B.* 34, 3878 *C.* 1902 [1] 115).
- \*2) 3-Nitroso-1-Methylbenzol. Sm. 53° (*A.* 316, 284).
- \*3) 4-Nitroso-1-Methylbenzol. Sm. 48,5° (*A.* 316, 282; *B.* 34, 3878 *C.* 1902 [1] 116).
- \*4) anti-Benzaloxim (*B.* 34, 2023; *B.* 34, 4024 *C.* 1902 [1] 116).
- \*6) 2-Acetylpyridin (Methyl-2-Pyridylketon). Sd. 188—189°. HCl, 2HCl, PtCl<sub>4</sub>, HNO<sub>3</sub> (*B.* 34, 4240 *C.* 1902 [1] 208).
- \*11) Amid d. Benzolcarbonsäure. K, K<sub>2</sub>, Mg + x H<sub>2</sub>O (*C.* 1902 [2] 792; *Am.* 28, 92 *C.* 1902 [2] 788).
- \*12) Phenylamid d. Ameisensäure (*C.* 1902 [2] 792).
- 15) 3-Methylenamido-1-Oxybenzol (D.R.P. 135335 *C.* 1902 [2] 1167).
- 16) 4-Methylenamido-1-Oxybenzol. + NaHSO<sub>3</sub> (D.R.P. 68707, 70541; *B.* 26, [2] 650; D.R.P. 135335 *C.* 1902 [2] 1167). — \*II, 412.

- $C_7H_7ON$  17) 4-Acetylpyridin (Methyl-4-Pyridylketon). *Sd.* 212–214° (HCl, (2HCl, PtCl<sub>4</sub>), + HgCl<sub>2</sub>, Pikrat. (*B.* 34, 4251 *C.* 1902 [1] 209).
- $C_7H_7ON_3$  7)  $\alpha$ -Oximido- $\alpha$ -Phenylazomethan. *Sm.* 94° (*B.* 35, 1087 *C.* 1902 [1] 996).
- $C_7H_7OCl$  \*1) 4-Chlor-1-Oxymethylbenzol. *Sm.* 71° (*C.* 1902 [1] 1212).
- 9) 2-Chlor-1-Oxymethylbenzol. *Sm.* 69,5°; *Sd.* 230° (*C.* 1902 [1] 1212; D.R.P. 128046 *C.* 1902 [1] 445; D.R.P. 128998 *C.* 1902 [1] 686).
- $C_7H_7OBr$  \*7) 3-Brom-4-Oxy-1-Methylbenzol. *Sd.* 218–219° (*A.* 320, 203 *C.* 1902 [1] 653).
- $C_7H_7OJ$  \*3) 3-Jod-4-Oxy-1-Methylbenzol. *Sm.* 37°; *Sd.* 117°<sub>12</sub> (*C.* 1901 [1] 453; *B.* 35, 2859 *C.* 1902 [2] 1038).
- \*5) Methyläther d. 3-Jod-1-Oxybenzol. *Sd.* 110–110,5°<sub>11</sub> (*B.* 35, 3026 *C.* 1902 [2] 1114).
- \*6) Methyläther d. 4-Jod-1-Oxybenzol. *Sm.* 51° (*Bl.* [3] 25, 819).
- $C_7H_7OAs$  3) 3-Methylphenylarsenoxyd (*A.* 320, 327 *C.* 1902 [1] 922).
- $C_7H_7OB$  2) 4-Methylphenylboroxyd. *Sm.* 257–258° (*A.* 315, 31).
- $C_7H_7O_2N$  \*1) Phenylnitromethan (*B.* 35, 1756, 1760 *C.* 1902 [2] 19).
- \*2) Phenylisotromethan (*B.* 35, 51 *C.* 1902 [1] 401).
- \*4) Benzhydroxamsäure. *Sm.* 131–132° (*G.* 31 [2] 28, 87; *B.* 35, 51 *C.* 1902 [1] 401).
- \*15) Nitrit d. Oxymethylbenzol. *Sd.* 80–81° (*B.* 34, 755).
- \*16) 2-Amidobenzol-1-Carbonsäure (D.R.P. 129 165 *C.* 1902 [1] 1138; *C.* 1902 [2] 1200; D.R.P. 130 301 *C.* 1902 [1] 1083; D.R.P. 133 950 *C.* 1902 [2] 867; D.R.P. 136 788 *C.* 1902 [2] 1439).
- \*24) 4-Methylpyridin-3-Carbonsäure. *Sm.* 215–216° (HCl, AuCl<sub>3</sub>) (*B.* 35, 2849 *C.* 1902 [2] 997).
- \*25) Pyridinbetaïn. (2 + HBr + 2H<sub>2</sub>O) (*C.* 1901 [1] 744).
- \*27) Methylbetaïn d. Pyridin-3-Carbonsäure (Trigonellin) (*M.* 22, 365; *B.* 35, 616 *C.* 1902 [1] 573; *C.* 1902 [2] 1514).
- \*29) Methylester d. Pyridin-3-Carbonsäure. *Sm.* 38° (*M.* 23, 685 *C.* 1902 [2] 1056).
- 42) Methyläther d. 2-Nitroso-1-Oxybenzol. *Sm.* 103° (*B.* 35, 3036 *C.* 1902 [2] 1106).
- 43) Methyläther d. 4-Nitroso-1-Oxybenzol. *Sm.* 32–34° (*B.* 35, 3035 *C.* 1902 [2] 1106).
- 44) Formylphenylhydroxylamin. *Sm.* 70–71° Cu (*B.* 35, 734 *C.* 1902 [1] 718; *B.* 35, 1884 *C.* 1902 [2] 33).
- $C_7H_7O_2N_3$  \*4)  $\alpha$ -Nitro- $\alpha$ -Phenylhydrazonmethan. *Sm.* 84,5–85,5° (*B.* 34, 581, 2008).
- \*12) Amid d. Pyridin-3,4-Dicarbonsäure + H<sub>2</sub>O. *Sm.* 175–176° 2 + AgNO<sub>3</sub> (*B.* 35, 2842 *C.* 1902 [2] 997).
- \*14) isom.  $\alpha$ -Nitro- $\alpha$ -Phenylhydrazonmethan. *Sm.* 74,5–75,5° (*B.* 34, 580, 2008).
- \*16) 4-Nitrophenylhydrazonmethan. *Sm.* 181° (*B.* 35, 70).
- \*20)  $\alpha$ -Nitroso- $\beta$ -Formyl- $\alpha$ -Phenylhydrazin (*B.* 35, 1901 *C.* 1902 [2] 42).
- $C_7H_7O_2Cl$  \*22) 2,4-Dioxybenzaloxim. *Sm.* 175° (*B.* 34, 1653).
- 5) 3-Chlor-4-Oxy-1-Oxymethylbenzol. *Sm.* 123° (*B.* 34, 2460).
- $C_7H_7O_2J$  7) Methyläther d. 2-Jodoso-1-Oxybenzol (*B.* 31, 1713). — \*II, 374.
- $C_7H_7O_2As$  3) Anhydrid d. 3-Methylphenylarsinsäure (*A.* 320, 328 *C.* 1902 [1] 922).
- $C_7H_7O_2N$  \*2) 2-Nitro-1-Oxymethylbenzol. *Sm.* 74° (*Bl.* [3] 25, 853; D.R.P. 128046 *C.* 1902 [1] 445; D.R.P. 128998 *C.* 1902 [1] 686).
- \*18) Nitrosoorcin (*B.* 35, 1006 *C.* 1902 [1] 868).
- \*22) 2,4-Dioxybenzaloxim. *Sm.* 197° (*B.* 34, 1443).
- \*24) 2-Oxybenzhydroxamsäure. FeOH (*A.* 323, 25 *C.* 1902 [2] 783).
- 39) 1-Methyläther d. 2-Nitroso-1,3-Dioxybenzol ( $\alpha$ -Modif. grüne Krystalle). *Sm.* 154° K (*B.* 35, 1477 *C.* 1902 [1] 1208).
- 40) isom. 1-Methyläther d. 2-Nitroso-1,3-Dioxybenzol ( $\beta$ -Modif. braungelbe Krystalle). *Sm.* 154° (*B.* 35, 1478 *C.* 1902 [1] 1208).
- 41) 1-Methyläther d. 4-Nitroso-1,3-Dioxybenzol. *Sm.* 138° (*B.* 35, 1484 *C.* 1902 [1] 1209).
- 42) 3-Methyläther d. 4-Nitroso-1,3-Dioxybenzol. *Zers.* oberh. 170° (*B.* 35, 1485 *C.* 1902 [1] 1209).
- 43) 2-Hydroxylamidobenzol-1-Carbonsäure. *Sm.* 119° u. *Zers.* (D.R.P. 89978). — \*II, 795.

- $C_7H_7O_3N$  44) 4-Amido-2-Oxybenzol-1-Carbonsäure. Sm. 220° u. Zers. (M. 23, 432 C. 1902 [2] 359; B. 34, 4352 C. 1902 [1] 313).  
 45) Methyl ester d. 6-Oxypyridin-3-Carbonsäure. Sm. 164° (M. 22, 440).
- $C_7H_7O_3N_3$  21) 4-Nitro-2-Amidobenzaldoxim (oder 2-Nitro-4-Amidobenzaldoxim). Sm. 177—178° (B. 35, 1234 C. 1902 [1] 1001).
- $C_7H_7O_3J$  2) Methyläther d. 2-Jodo-1-Oxymethylbenzol (B. 31, 1714). — \*II, 374.
- $C_7H_7O_4N$  \*7) 1-Methyläther d. 4-Nitro-1,3-Dioxybenzol (C. 1901 [1] 739; 1901 [2] 96).  
 14) 5-Nitro-2-Oxy-1-Oxymethylbenzol. Sm. 126° (128°) (C. 1902 [2] 894; D.R.P. 136680 C. 1902 [2] 1439).  
 15) 3-Nitro-4-Oxy-1-Oxymethylbenzol. Sm. 97° (B. 34, 2459; D.R.P. 136680 C. 1902 [2] 1439).  
 16) 2,3,4-Trioxymethylbenzaloxim. Sm. 204° u. Zers. (B. 34, 1445).  
 17) 2,4,6-Trioxymethylbenzaloxim + 2 H<sub>2</sub>O. Zers. 195° (B. 34, 1445).  
 18) 2,3-Diketo-5- oder -6-Methyl-1,2,3,4-Tetrahydropyridin-4-Carbonsäure + 2 H<sub>2</sub>O. Sm. 255° u. Zers. (wasserfrei). K, Ba, Ag (B. 35, 1554 C. 1902 [1] 1227).
- $C_7H_7O_4N_3$  \*7) 3,5-Dinitro-2-Amido-1-Methylbenzol. Sm. 208—209° (B. 35, 1441 C. 1902 [1] 1200).  
 \*8) 4,6-Dinitro-2-Amido-1-Methylbenzol. Sm. 212—213° (Soc. 81, 27 C. 1902 [1] 115).  
 \*11) 3,5-Dinitro-4-Amido-1-Methylbenzol. Sm. 167,5—168,5° (J. pr. [2] 63, 358).  
 \*23)  $\alpha$ -Oximido- $\alpha$ -Amido- $\alpha$ -[5-Nitro-2-Oxyphenyl]methan (B. 26, 1255 Ann.). — \*II, 896.
- $C_7H_7O_4B$  1) Phenylborsäure-4-Carbonsäure (p-Borbenzoesäure). Sm. 225°. Ba + H<sub>2</sub>O, (Pb, PbO), Ag<sub>2</sub> (A. 315, 33).
- $C_7H_7O_5N$  \*1) Aethylester d. p-Nitrofuran-2-Carbonsäure. Sm. 101° (C. r. 135, 506 C. 1902 [2] 506).
- $C_7H_7O_5N_3$  \*4) Methyläther d. 2,3-Dinitro-4-Amido-1-Oxybenzol. Sm. 188° (Soc. 81, 990 C. 1902 [2] 697).  
 \*9) Methyläther d. 4,5-Dinitro-2-Amido-1-Oxybenzol. Sm. 187—188° (C. 1901 [1] 739; 1901 [2] 97).  
 11) 4,6-Dinitro-2-Amido-3-Oxy-1-Methylbenzol (D.R.P. 129283 C. 1902 [1] 690).  
 12) 4,5-Dinitro-2-Hydroxylamido-1-Methylbenzol. Sm. 143—145° (Soc. 81, 27 C. 1902 [1] 115).
- $C_7H_7O_5As$  \*1) Phenylarsinsäure-4-Carbonsäure (A. 320, 303 C. 1902 [1] 920).  
 2) Phenylarsinsäure-3-Carbonsäure. Ca, Ag<sub>3</sub> (A. 320, 329 C. 1902 [1] 922).
- $C_7H_7O_7N_3$  1) Verbindung (aus Kaliummethylat u. 1,3,5-Trinitrobenzol). K +  $\frac{1}{2}$  H<sub>2</sub>O (B. 32, 3142; R. 14, 150). — \*II, 50.
- $C_7H_7NCl_2$  \*1) 3,5-Dichlor-2-Amido-1-Methylbenzol. Sm. 58—60° (Soc. 81, 1349 C. 1902 [2] 1181).  
 11) 4,5-Dichlor-2-Amido-1-Methylbenzol. Sm. 100—101° (Soc. 81, 1333 C. 1902 [2] 1179).  
 12) 2,5-Dichlor-3-Amido-1-Methylbenzol. Sm. 69—70° (Soc. 81, 1330 C. 1902 [2] 1179).  
 13) 2,6-Dichlor-3-Amido-1-Methylbenzol. Sm. 59—60° (Soc. 81, 1332 C. 1902 [2] 1179).  
 14) 2,3-Dichlor-4-Amido-1-Methylbenzol. Sm. 40—42°. HCl (Soc. 81, 1327 C. 1902 [2] 1179).
- $C_7H_7NBr_2$  \*6) 4,6-Dibrom-3-Amido-1-Methylbenzol. Sm. 74,5—75° (Soc. 81, 872 C. 1902 [2] 32).
- $C_7H_7N_3Cl$  3) 3-Chlorbenzylidenhydrazin. Krystalle. Sd. 163—164°<sub>20</sub>. Pikrat (B. 35, 3238 C. 1902 [2] 1045).
- $C_7H_7ClHg$  \*1) Quecksilber-2-Methylphenylehlorid. Sm. 140—142° (C. 1901 [1] 451).
- $C_7H_7Cl_3As$  \*3) 4-Methylphenyldichlorarsin. Sm. 31°; Sd. 267° (A. 320, 301 C. 1902 [1] 920).  
 4) 3-Methylphenyldichlorarsin. Sd. 270° (A. 320, 326 C. 1902 [1] 922).
- $C_7H_7Cl_4As$  3) 3-Methylphenylarsentetrachlorid. Sm. 38° (A. 320, 327 C. 1902 [1] 922).



- $C_7H_7BrMg$  2) Magnesium-4-Methylphenylbromid (*C.* 1901 [1] 1357).
- $C_7H_7Br_2B$  1) Dibromid d. 4-Methylphenylborsäure. Sm. 44—45°; Sd. 145°<sub>25</sub> (*A.* 315, 31).
- $C_7H_7SAs$  1) 4-Methylphenylarsensulfid. Sm. 146° (*A.* 320, 302 *C.* 1902 [1] 920).
- $C_7H_7ON_2$  \*4) Methylnitrosamidobenzol. HCl (*B.* 35, 2975 *C.* 1902 [2] 1105).
- \*5) Phenylharnstoff (*C.* 1902 [1] 20).
- \*7) 2-Amidobenzaldoxim. Sm. 132—133° (136—136,5°) (*B.* 34, 1329; *B.* 34, 4024, 4028 *C.* 1902 [1] 116; *B.* 34, 3789 *C.* 1902 [1] 41; *B.* 35, 1888 *C.* 1902 [2] 50).
- \*11) 2-Oxybenzylidenhydrazin. Sm. 96°. Pikrat (*B.* 35, 3237 *C.* 1902 [2] 1044).
- \*17) 3-Acetylamidopyridin. Sm. 133° (*Ar.* 240, 354 *C.* 1902 [2] 648).
- \*18) 2-[ $\alpha$ -Oximidoäthyl]pyridin. Sm. 121° (*B.* 34, 4241 *C.* 1902 [1] 208).
- \*25) Hydrazid d. Benzolcarbonsäure (*B.* 35, 3240 *C.* 1902 [2] 1045; *A.* 323, 273 *C.* 1902 [2] 1102).
- 25) Phenyl diazomethanhydrat (Benzylazosäure).  $K + H_2O$  (*B.* 35, 903 *C.* 1902 [1] 856).
- 29) 2-Acetylamidopyridin. Sm. 71° (*Ar.* 240, 349 *C.* 1902 [2] 647).
- 30) 4-Acetylamidopyridin. Sm. 150° (124° wasserhaltig) (*Ar.* 240, 364 *C.* 1902 [2] 649).
- 31) 4-[ $\alpha$ -Oximidoäthyl]pyridin. Sm. 142° (*B.* 34, 4251 *C.* 1902 [1] 209, 210).
- 32) Verbindung (aus d. Aldehyd d. 2,4-Dinitrobenzol-1-Carbonsäure). Sm. 152,5° (*B.* 35, 2712 *C.* 1902 [2] 637).
- $C_7H_5O_2N_2$  \*2) 2-Nitro-1-Methylamidobenzol. Sm. 35° (*R.* 21, 272 *C.* 1902 [2] 514).
- \*3) 3-Nitro-1-Methylamidobenzol. Sm. 68° (*C.* 1901 [1] 105).
- \*4) 4-Nitro-1-Methylamidobenzol. Sm. 151° (*R.* 21, 270 *C.* 1902 [2] 513).
- \*10) 3-Nitro-2-Amido-1-Methylbenzol. Sm. 97° (*B.* 35, 1441 *C.* 1902 [1] 1200).
- \*11) 4-Nitro-2-Amido-1-Methylbenzol. HBr (*J. pr.* [2] 65, 249 *C.* 1902 [1] 1203).
- \*12) 5-Nitro-2-Amido-1-Methylbenzol. Sm. 129—130° (*B.* 35, 1440 *C.* 1902 [1] 1200).
- \*13) 6-Nitro-2-Amido-1-Methylbenzol. HBr, HJ (*J. pr.* [2] 65, 239 *C.* 1902 [1] 1202).
- \*16) 5-Nitro-3-Amido-1-Methylbenzol. HBr (*J. pr.* [2] 65, 242 *C.* 1902 [1] 1203).
- \*18) 2-Nitro-4-Amido-1-Methylbenzol. HBr + 3H<sub>2</sub>O (*J. pr.* [2] 65, 246 *C.* 1902 [1] 1203).
- \*39) 2,3-Diamidobenzol-1-Carbonsäure. Sm. 190—191° u. Zers. HCl (*B.* 34, 902).
- \*40) 2,4-Diamidobenzol-1-Carbonsäure. HCl (*B.* 34, 4352 *C.* 1902 [1] 313; *M.* 23, 434 *C.* 1902 [2] 359).
- \*47)  $\beta$ -Phenylhydrazidoameisensäure. Anilinsalz (*Bl.* [3] 25, 859).
- 61) 5-Nitroso-2-Amido-4-Oxy-1-Methylbenzol (D.R.P. 74 918, 75 234, 75 243, 75 753, 81 371, 82 922, 84 667, 87 133). — \*II, 438.
- 62)  $\alpha$ -Oxy- $\alpha$ -Phenylharnstoff. Sm. 95°. HCl (*G.* 31 [2] 345 *C.* 1902 [1] 32).
- 63) 2-Hydroxylamidobenzaldoxim. Sm. 120—121° u. Zers. (*B.* 34, 4026 *C.* 1902 [1] 117).
- 64) 2,6-Diamidobenzol-1-Carbonsäure (*M.* 23, 430 *C.* 1902 [2] 359).
- 65) Methylester d. 4-Amidopyridin-3-Carbonsäure. Sm. 173° (*M.* 23, 245 *C.* 1902 [1] 1367).
- 66) Methylester d. 3-Amidopyridin-4-Carbonsäure + H<sub>2</sub>O. Sm. 50° (86—87° wasserfrei) (*B.* 35, 2834 *C.* 1902 [2] 995).
- 67) Verbindung (aus Anthranil u. Hydroxylamin). Sm. 114—115° (*B.* 34, 3790 *C.* 1902 [1] 141).
- $C_7H_5O_2N_4$  \*4) 2,6-Diketo-1,3-Dimethylpurin (*H.* 35, 1 *C.* 1902 [2] 841).
- \*7) Theobromin (*C.* 1901 [1] 613).
- 12) 2,6-Diketo-8-Aethylpurin. Zers. bei 390° (*C.* 1901 [2] 72).
- 13) 2,6-Diketo-9-Aethylpurin (9-Aethylxanthin). Zers. bei 360° (*C.* 1901 [1] 1220).
- 14) 2,6-Diketo-3,8-Dimethylpurin + H<sub>2</sub>O. Sm. 350° u. Zers. (*C.* 1901 [2] 71).



- $C_7H_5O_3S$  \*2) 1-Methylbenzol-4-Sulfonsäure. Cu, Ag, Phenylhydrazinsalz (*J. pr.* [2] 63, 170).
- $C_7H_5O_3S_2$  \*2) 1-Methylbenzol-4-Thiolsulfonsäure. Salze siehe (*C. 1901* [1] 956).
- $C_7H_5O_3Hg$  2) 6-Oxy-3-Methylphenylquecksilberhydroxyd. Na (*C. 1901* [1] 453; *B. 35*, 2858 *C. 1902* [2] 1038).
- $C_7H_5O_3N_2$  \*4) Methyläther d. 4-Nitro-2-Amido-1-Oxybenzol. Sm. 116,5—117,5° (*C. 1901* [1] 739).
- \*5) Methyläther d. 5-Nitro-2-Amido-1-Oxybenzol. Sm. 139—140° (*C. 1901* [1] 739; *1901* [2] 97).
- \*15) 5-Nitro-6-Oxy-2,4-Dimethylpyridin. Sm. 254° (*C. 1901* [1] 1053).
- \*20) Hydrazid d. 2-Oxyphenylkohlenensäure. Sm. 164—165° (*A. 317*, 191).
- \*21) Hydrazid d. 4-Oxyphenylkohlenensäure. Sm. 174° (*A. 317*, 201).
- 25) 4-Nitro-1-Oxy- $\beta$ -Amidomethylbenzol. Sm. 253° u. Zers. (*D.R.P.* 134979 *C. 1902* [2] 1084).
- 26) 3-Nitro-6-Oxy-2,4-Dimethylpyridin. Sm. 196° (260°) (*C. 1901* [1] 1053; *Soc. 81*, 116 *C. 1902* [1] 428).
- 27) 5-Acetyl-4-Methylpyrazol-3-Carbonsäure +  $H_2O$ . Sm. 233° (*J. pr.* [2] 65, 391 *C. 1902* [1] 1365).
- 28) Amid d. 2,3-Diketo-5- oder -6-Methyl-1,2,3,4-Tetrahydropyridin-4-Carbonsäure. Zers. oberh. 280° (*B. 35*, 1555 *C. 1902* [1] 1227).
- 29) Hydrazid d. 3-Oxyphenylkohlenensäure. Sm. 160° (*A. 317*, 196).
- 30) Acetylhydrazid d. Furan-2-Carbonsäure. Sm. 153,5° (*J. pr.* [2] 65, 28 *C. 1902* [1] 460).
- $C_7H_5O_3Br_2$  2) Propylester d. Mukobromsäure. Sm. 31,5° (*B. 34*, 518).
- $C_7H_5O_3S$  \*1) 1-Methylbenzol-2-Sulfonsäure. K + HF (*A. 315*, 366).
- \*3) 1-Methylbenzol-4-Sulfonsäure. Sm. 102°. K + HF, K + 2HF, p-Amidophenolsalz, Anilinsalz (*B. 34*, 236, 252, 1352; *A. 315*, 368).
- $C_7H_5O_4N_2$  9) Acetat d. 5-Oxy-2,4-Diketo-6-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 238—241° u. Zers. (*A. 323*, 192 *C. 1902* [2] 891).
- $C_7H_5O_4S$  16) 3-Oxybenzylmethyläther-1-Sulfonsäure (*Am. 17*, 456). — \*II, 490.
- $C_7H_5O_5S$  \*2) 1,2-Dioxybenzol-1-Methyläther-3-Sulfonsäure (*D.R.P.* 132607 *C. 1902* [2] 314; *D.R.P.* 132645 *C. 1902* [2] 236).
- \*5) 1,2-Dioxybenzol-2-Methyläther-4-Sulfonsäure? (*J. pr.* [2] 65, 96 *C. 1902* [1] 583).
- $C_7H_5NCl$  \*6) 4-Chlor-1-Methylamidobenzol. Sd. 218°<sub>760</sub> (*Soc. 79*, 465).
- \*7) 4-Chlor-2-Amido-1-Methylbenzol (*M. 22*, 481).
- \*9) 6-Chlor-2-Amido-1-Methylbenzol. Sd. 242—244°. HCl, (2HCl, PtCl<sub>4</sub>),  $H_2SO_4$  (*M. 22*, 481).
- \*14) 6-Chlor-3-Amido-1-Methylbenzol. Sm. 83,5—84,1° (*B. 35*, 3701 *C. 1902* [2] 1448).
- \*16) 3-Chlor-4-Amido-1-Methylbenzol. Sd. 223—224° (*Soc. 81*, 1337 *C. 1902* [2] 1179).
- \*18) 4-Chlor-2,6-Dimethylpyridin. (2HCl, PtCl<sub>4</sub>) (*B. 35*, 3159 *C. 1902* [2] 1215).
- $C_7H_5N_2S$  \*1) Phenylthioharnstoff (*C. 1902* [1] 20).
- $C_7H_5N_2S_2$  \*1)  $\beta$ -Phenylhydrazidodithioameisensäure. NH<sub>4</sub> (*J. pr.* [2] 65, 382 *C. 1902* [1] 1330).
- $C_7H_5ON$  \*6) 5-Amido-2-Oxy-1-Methylbenzol. Sm. 172—173° (*B. 35*, 3700 *C. 1902* [2] 1448).
- \*19) 2-Methylphenylhydroxylamin. Sm. 44° (*A. 316*, 278).
- \*20) 3-Methylphenylhydroxylamin. Sm. 68,5° (*A. 316*, 283).
- \*21) 4-Methylphenylhydroxylamin. Sm. 93,5—94° (*A. 316*, 280).
- \*33) 2-[ $\beta$ -Oxyäthyl]pyridin. (2HCl, PtCl<sub>4</sub>), Pikrat (*B. 35*, 1345 *C. 1902* [1] 1109).
- \*39) 4-Keto-2,6-Dimethyl-1,4-Dihydropyridin. Sm. 224—225° (*J. pr.* [2] 64, 496 *C. 1902* [1] 124; *B. 35*, 3158 *C. 1902* [2] 1214).
- 44) 3-Methylamido-1-Oxybenzol. Sd. 170°<sub>12</sub> (*D.R.P.* 48151; *J. pr.* [2] 63, 422). — \*II, 394.
- 45) 2-Aethylimidomethylfuran (Furfurylidenäthylamin). Sd. 60—63°<sub>11</sub> (*B. 35*, 412 *C. 1902* [1] 662).
- 46) 2-[ $\alpha$ -Oxyäthyl]pyridin (2-Pyridylmethylecarbinol). Sm. 112° (130° und 142°). HCl, (2HCl, PtCl<sub>4</sub>) (*B. 34*, 4241 *C. 1902* [1] 208).
- 47) 6-Oxy-2,4-Dimethylpyridin. Sm. 180° (*B. 35*, 2394 *C. 1902* [2] 455).

- $C_7H_9ON$  48) 6-Oxy-2,5-Dimethylpyridin +  $\frac{1}{2}H_2O$ . Sm. 138—139°. K +  $5\frac{1}{2}H_2O$  (B. 34, 3696 C. 1902 [1] 47).
- $C_7H_9ON_3$  15) 2,4-Diamidobenzaldoxim. Sm. 199—200° (B. 35, 1235 C. 1902 [1] 1001).
- 16)  $\alpha$ -Oximido- $\alpha$ -Phenylhydrazonmethan. Zers. bei 113,5° (B. 35, 1085 C. 1902 [1] 996).
- 17) Verbindung (aus Anthranil und Hydrazin). Sm. 120° u. Zers. (B. 34, 3791 C. 1902 [1] 41).
- $C_7H_9O_2N$  \*4) 3-Methyläther d. 4-Amido-1,3-Dioxybenzol. HCl (B. 35, 1485 C. 1902 [1] 1209).
- \*31) Imid d.  $\beta$ -Penten- $\beta\gamma$ -Dicarbonsäure (I. d. Methyläthylmaleinsäure). Sm. 72,5° (A. 315, 208).
- 32) 5-Amido-2-Oxy-1-Oxymethylbenzol. HCl (C. 1902 [2] 894).
- 33) 1-Methyläther d. 2-Amido-1,3-Dioxybenzol. HCl (B. 35, 1479 C. 1902 [1] 1208).
- 34) Aethylester d.  $\alpha$ -Cyancrotonsäure. Fl. (G. 31 [1] 272).
- 35) Aethylester d.  $\alpha$ -Cyanisocrotonsäure (G. 31 [1] 273).
- $C_7H_9O_2N_3$  \*9) 2,3,5-Triamidobenzol-1-Carbonsäure. 3HCl (C. 1902 [1] 1293).
- \*12) 2-Nitro-4-Methylphenylhydrazin. Sm. 110°. HCl (Soc. 79, 1141).
- 13) 2-[ $\alpha$ -Semicarbazonäthyl]furan. Sm. 148° (B. 34, 1073).
- 14) 2,4,6-Triamidobenzol-1-Carbonsäure (D.R.P. 102358 C. 1899 [1] 1263). — \*II, 792.
- $C_7H_9O_3N$  \*6) Aethylester d. 2-Furanylamidoameisensäure. Krystalle. Sd. 133°<sub>24</sub> (215° u. Zers.) (J. pr. [2] 65, 35 C. 1902 [1] 460; C. r. 134, 289 C. 1902 [1] 567).
- \*9) Methylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylälthyläthersäure. Sm. 28°; Sd. 200°<sub>32</sub> (Bl. [3] 25, 21).
- 10) 3-Amido-2,4,6-Trioxyl-1-Methylbenzol. HCl + 2H<sub>2</sub>O (A. 318, 291).
- 11) 3,5-Dimethylisoxazol-4-Methylcarbonsäure. Na, K + C<sub>2</sub>H<sub>6</sub>O, Ba + 2H<sub>2</sub>O, Cu, Ag (C. 1902 [2] 345; Bl. [3] 25, 647).
- 12) Aethylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylmethyläthersäure. Sm. 99°; Sd. 190°<sub>17</sub> (Bl. [3] 25, 28). — \*I, 683.
- $C_7H_9O_3Cl$  2) Lakton d.  $\zeta$ -Chlor- $\epsilon$ -Oxy- $\beta$ -Ketohehexan- $\gamma$ -Carbonsäure. Sd. 163°<sub>12</sub> (B. 34, 1980).
- $C_7H_9O_3Br$  1) Anhydrid d.  $\gamma$ -Brom- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure (A. d. Bromtrimethylbernsteinsäure). Sm. 197—198° (Soc. 81, 53 C. 1902 [1] 180, 409).
- $C_7H_9O_3As$  \*2) 4-Methylphenylarsinsäure (A. 320, 303 C. 1902 [1] 920).
- 3) 3-Methylphenylarsinsäure. Sm. 150°. NH<sub>3</sub>, Ca, Ag<sub>2</sub> (A. 320, 328 C. 1902 [1] 922).
- $C_7H_9O_4N_3$  \*1) 5-Nitro-2,4-Diketo-3-Methyl-1-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 105—106° (A. 323, 175 C. 1902 [2] 890).
- \*2) 5-Nitro-2,4-Diketo-1-Methyl-3-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin + H<sub>2</sub>O. Sm. 109° (124° wasserfrei) (A. 323, 177 C. 1902 [2] 890).
- 5) Aethylester d. 4-Oximido-5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 114—115,5°. Ag (J. pr. [2] 64, 340).
- $C_7H_9O_4Br$  5)  $\beta\delta$ -Lakton d.  $\gamma$ -Brom- $\delta$ -Oxy- $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 168—170° (Soc. 81, 254 C. 1902 [1] 810).
- 6)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Brom- $\alpha$ -Oxy- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 169—170° (Soc. 79, 755).
- $C_7H_9O_4As$  \*1) 4-Methoxyphenylarsinsäure. Sm. 203° (A. 320, 299 C. 1902 [1] 920).
- $C_7H_9N_2Cl$  3) 6-Chlor-2,3-Diamido-1-Methylbenzol. Sm. 46—47° (M. 22, 477).
- 4) 2-Chlor-2,5-Diamido-1-Methylbenzol. Sm. 146°. 2HCl, H<sub>2</sub>SO<sub>4</sub> (B. 34, 1652).
- 5) 5-Chlor-2-Amido-1-Methylamidobenzol. Fl. HCl (C. 1901 [1] 154; B. 34, 1096).
- 6) 2-Chlorbenzylhydrazin. HCl (B. 34, 851).
- $C_7H_{10}ON_2$  14) Cyklotetramethylenpyrazolon. Sm. 285—286° (A. 317, 104).
- 15) Methyläther d. 2-Oxy-4,6-Dimethyl-1,3-Diazin. Sm. 35—36°; Sd. 208—209°<sub>744</sub>. HCl, + 2HgCl<sub>2</sub> (B. 34, 3959 C. 1902 [1] 127).
- $C_7H_{10}O_2N_2$  \*5) Trimethyluracil. Sm. 110—112° (A. 323, 168 C. 1902 [2] 890).
- \*19) Aethylester d. Pyrrol-2-Amidoameisensäure. Sm. 55—56° (G. 32 [1] 250 C. 1902 [1] 1229).
- 21) Propylester d.  $\alpha$ -Cyan- $\beta$ -Amidoakrylsäure. Sm. 46° (Bl. [3] 25, 41). C 40,0 — H 4,8 — O 15,2 — N 40,0 — M. G. 210.

- $C_7H_{10}O_2N_6$  1) Azid d.  $\beta$ -Methylbutan- $\alpha\delta$ -Dicarbonsäure. Fl. (Bl. [3] 17, 806). — \*I, 838.
- $C_7H_{10}O_2Cl_2$  4) Chlorid d. Pentan- $\gamma\gamma$ -Dicarbonsäure. Sd. 196,5—197,5° (B. 35, 854 C. 1902 [1] 746).
- $C_7H_{10}O_2Br_2$  4) 1-Brom-R-Pentamethylen-1-Brommethylcarbonsäure. Sm. 88° (C. 1902 [1] 1222; A. 323, 159 C. 1902 [2] 843).
- $C_7H_{10}O_3N_3$  12) Aethylester d. Cyanoximidoessigäthyläthersäure. Sd. 125—127°<sub>23</sub> (A. ch. [7] 1, 520; Bl. [3] 27, 1014 C. 1902 [2] 1413). — \*I, 678.
- 13) Aethylester d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 189—190° (J. pr. [2] 64, 338).
- $C_7H_{10}O_4Br_2$  11)  $\gamma\delta$ -Dibrom- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 178—179° (Soc. 81, 56 C. 1902 [1] 409).
- 12)  $\gamma\delta$ -Dibrom- $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 217—219° (Soc. 81, 254 C. 1902 [1] 810).
- 13)  $\alpha\alpha$ -Dibrom- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure (Soc. 79, 762).
- 14)  $\alpha\gamma$ -Dibrom- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 187—189° (Soc. 79, 755).
- $C_7H_{10}O_3Hg$  1) Acetat d. Oxymerkuricitrakonsäure. Hg (B. 35, 2579 C. 1902 [2] 570).
- $C_7H_{11}ON$  \*5) Base (aus d. Lupanin) (C. 1902 [1] 669).
- 12) 2-Aethylamidomethylfuran (Aethylfurfurylamin). Sd. 49—50°<sub>21</sub>. HCl, HBr, Pikrat (B. 35, 412 C. 1902 [1] 662).
- 13) Amid d. 2,3-Dihydro-R-Penten-4-Methylcarbonsäure? Sm. 144° (C. 1902 [1] 1222; A. 323, 160 C. 1902 [2] 843).
- $C_7H_{11}ON_3$  3) Methyläther d. 2,4,5-Triamido-1-Oxybenzol. 3HCl (C. 1901 [2] 97).
- 4) Amid d. 3,4,5-Trimethylpyrazol-1-Carbonsäure. Sm. 148—149° (B. 34, 3981 C. 1902 [1] 192).
- $C_7H_{11}OCl$  3) Chlorid d. 1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 173—175° (B. 35, 2691 C. 1902 [2] 591).
- $C_7H_{11}OBr$  1) 1-2- oder -4-Brom-3-Keto-1-Methylhexahydrobenzol. Sm. 83—85°; Sd. 106—107°<sub>13</sub> (B. 35, 2695 C. 1902 [2] 590).
- $C_7H_{11}O_2N$  \*7) 1-Methyl-1, 2, 5, 6-Tetrahydropyridin-3-Carbonsäure (M. 23, 22 C. 1902 [1] 821).
- $C_7H_{11}O_2N_3$  7) Amid d. 5-Keto-3-Propyl-4,5-Dihydropyrazol-1-Carbonsäure. Sm. 189° (C. 1901 [1] 1195).
- $C_7H_{11}O_2Br_3$  1)  $\beta\gamma\gamma$ -Tribrom- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sm. 161° (A. 319, 104).
- $C_7H_{11}O_3N$  \*2) 1-Egoninsäure. Sm. 117—118° (B. 34, 522).
- 9) r-Egoninsäure (5-Keto-1-Methyltetrahydropyrryl-2-Methylcarbonsäure). Sm. 93—95° (B. 24, 614; 34, 522, 1818).
- $C_7H_{11}O_3N_3$  7) Säure (aus Bisanhydritroessigsäureäthylester). Sm. 143° u. Zers. Diäthylaminsalz (C. r. 133, 103).
- $C_7H_{11}O_3Cl_3$  4) Monoacetat d.  $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Dioxyäthanmonopropyläther. Sd. 114—116° (G. 31 [1] 90).
- $C_7H_{11}O_4N$  \*14) Aethylester d.  $\alpha$ -Nitro- $\beta$ -Methylpropen- $\alpha$ -Carbonsäure (Bl. [3] 25, 910).
- \*15) Aethylester d.  $\gamma$ -Nitro- $\beta$ -Methylpropen- $\gamma$ -Carbonsäure (Bl. [3] 25, 916).
- 16) 1-Methyltetrahydropyrryl-2, 5-Dicarbonsäure. Sm. 273—274°. CaOH, Ag<sub>2</sub>, HCl (2 HCl, PtCl<sub>4</sub>) (B. 35, 2067 C. 1902 [2] 217).
- 17) isom. 1-Methyltetrahydropyrryl-2, 5-Dicarbonsäure. Sm. 280—281° (B. 35, 2071 C. 1902 [2] 218).
- 18)  $\alpha$ -Hexahydropyridin-2, 6-Dicarbonsäure. Sm. 258°. Cu (B. 34, 2546).
- 19)  $\beta$ -Hexahydropyridin-2, 6-Dicarbonsäure. Sm. 281° (B. 34, 2549).
- $C_7H_{11}O_6N$  \*1) Diäthylester d. Nitromalonsäure. Sd. 127°<sub>10</sub>. NH<sub>4</sub>, Na, K (Bl. [3] 25, 695; G. 32 [2] 235 C. 1902 [2] 1499).
- $C_7H_{12}ON_2$  10) 5-Keto-3-Isobutyl-4,5-Dihydropyrazol. Sm. 229° (C. r. 133, 821).
- 11) 5-Keto-4-Methyl-3-Propyl-4,5-Dihydropyrazol. Sm. 189° (C. r. 133, 166).
- 12) Amid d.  $\alpha$ -Cyanpentan- $\alpha$ -Carbonsäure. Sm. 125,5—126,5° (C. 1902 [2] 700).
- $C_7H_{12}O_2N_2$  12) 3-Oxinido-1-Nitroso-1-Methylhexahydrobenzol. Sm. 106—108° (B. 35, 1171 C. 1902 [1] 1008).
- $C_7H_{12}O_2N_4$  3) 1,3-Dimethylpuron. Sm. 224—240° u. Zers. (B. 34, 282).
- 4) 3,9-Dimethylpyron (B. 34, 283).
- 5) 7,9-Dimethylpuron (B. 34, 284).

- $C_7H_{12}O_3N_6$  C 36,8 — H 5,3 — O 21,0 — N 36,8 — M. G. 228.  
1)  $\beta\delta$ -Disemicarbazon- $\gamma$ -Ketopentan. Sm. 221° (B. 35, 3313 C. 1902 [2] 1109).
- $C_7H_{12}O_4N_2$  3) Diacetylderivat d.  $\beta$ -Oxyäthylharnstoff. Sm. 102° (R. 13, 488). — \*I, 860.  
4) Nitrosat d. 1-Methyl-1,2,3,4-Tetrahydrobenzol (B. 35, 2824 C. 1902 [2] 990).
- $C_7H_{12}O_4N_4$  3) Tetraamid d. Propan- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure. Sm. 248—249° u. Zers. (J. pr. [2] 66, 4 C. 1902 [2] 507).
- $C_7H_{12}O_4S_2$  2) Sulfoneton (aus Sulfeton). Sm. 164° (B. 34, 3401).
- $C_7H_{12}O_5N_2$  5) Monoäthylester d. Carboxylamidoacetylamidoessigsäure (Carbox-äthylglycylglycin). Sm. 140°. Zers. bei 200° (B. 35, 1096 C. 1902 [1] 909).
- $C_7H_{12}O_6Hg_2$  1) Diäthylester d. Dimerkurimalonsäure. Chlorid, Sulfat (B. 35, 2580 C. 1902 [2] 570).
- $C_7H_{13}ON$  25)  $\alpha$ -Oximido- $\beta\delta$ -Dimethyl- $\beta$ -Penten. Sd. 100°<sub>17</sub> (M. 22, 43).  
26) Amid d. 1-Methyl-R-Pentamethylen-3-Carbonsäure. Sm. 149 bis 150° (B. 35, 2691 C. 1902 [2] 591).  
27) Verbindung (aus  $\zeta$ -Amidohexan- $\alpha$ -Carbonsäure). Sm. 212—213° (B. 35, 1370 C. 1902 [1] 1091).
- $C_7H_{13}O_2N$  29)  $\gamma$ -Oximido- $\delta$ -Ketoheptan. Sd. 145°<sub>80</sub> (G. 32 [1] 423 C. 1902 [1] 262).  
30) 3-Amidohexahydrobenzol-1-Carbonsäure. Sm. 268—269°. HCl, (2HCl, PtCl<sub>4</sub>) (A. 319, 333 C. 1902 [1] 351).  
31) 2-Hexahydropyridylessigsäure. Sm. 214°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 35, 1348 C. 1902 [1] 1109).  
32) Äthylester d.  $\alpha$ -Amido- $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sd. 93 bis 95°<sub>18</sub> (C. 1901 [1] 218; Bl. [3] 25, 914).
- $C_7H_{13}O_2N_3$  2) Diamid d.  $\alpha$ -Hexahydropyridin-2,6-Dicarbonsäure + H<sub>2</sub>O. Sm. 228 bis 229° (B. 34, 2545).  
3) Diamid d.  $\beta$ -Hexahydropyridin-2,6-Dicarbonsäure. Sm. 225 bis 226° (B. 34, 2548).
- $C_7H_{13}O_2Cl$  \*1) Äthylester d.  $\delta$ -Chlorvaleriansäure. Sd. 120—125°<sub>40</sub> (Soc. 79, 132).  
12) Äthylester d.  $\alpha$ -Chlorvaleriansäure. Sd. 185°<sub>759</sub> (C. 1901 [1] 94).  
13) Äthylester d.  $\alpha$ -Chlorisovaleriansäure. Sd. 177—179°<sub>756</sub> (C. 1901 [1] 94).  
14) Äthylester d.  $\alpha$ -Chlor- $\alpha$ -Methylbuttersäure. Sd. 175°<sub>747</sub> (C. 1901 [1] 95).  
15) Methylbutylcarbinolester d. Chlorameisensäure. Sd. 144—146° (C. 1901 [1] 1302).  
16) Äthylpropylcarbinolester d. Chlorameisensäure. Sd. 141—143° (C. 1901 [1] 1302).  
17) Äthylisopropylcarbinolester d. Chlorameisensäure. Sd. 144—146° (C. 1901 [1] 1302).  
18) Chlorformiat d.  $\beta$ -Oxy- $\gamma$ -Methylpentan. Sd. 144—146° (C. 1901 [1] 1303).
- $C_7H_{13}O_2Br$  \*7) Äthylester d.  $\alpha$ -Bromvaleriansäure. Sd. 193—196° (B. 34, 4045 C. 1902 [1] 177).  
17) Äthylester d.  $\alpha$ -Brom- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sd. 89 bis 90°<sub>20</sub> (C. r. 134, 553 C. 1902 [1] 856, 857).
- $C_7H_{13}O_3N$  10) Äthylester d.  $\alpha$ -Oximido- $\beta$ -Methylpropan- $\alpha$ -Carbonsäure. Sm. 55° (57°) (C. 1901 [1] 736; Bl. [3] 25, 1034 C. 1902 [1] 251).  
11) Monamid d. Propan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 77° (B. 35, 849 C. 1902 [1] 746).  
12) Isoamylmonamid d. Oxalsäure. Ca + 2H<sub>2</sub>O, Isoamylaminsalz + H<sub>2</sub>O (A. ch. [7] 3, 307). — \*I, 759.
- $C_7H_{13}O_3N_3$  7)  $\delta$ -Semicarbazonpentan- $\delta$ -Carbonsäure. Sm. 191° (C. r. 134, 180 C. 1902 [1] 457).
- $C_7H_{13}O_4N$  7) Monoäthylester d. i-Glutaminsäure. Sm. bei 185° (G. 24 [1] 384). — \*I, 668.
- $C_7H_{13}O_4N_3$  2) Äthylester d. Ureidoacetylamidoessigsäure. Sm. 165° (B. 35, 1099 C. 1902 [1] 910).  
3) Äthylester d. Carboxylamidoacetylamidoessigsäureamid (Carbox-äthylglycylglycinamid). Sm. 183° u. Zers. (B. 34, 2876; B. 35, 1095 C. 1902 [1] 909).

- $C_7H_{13}NS_2$  5) Methylester d. Hexahydropyridin-1-Dithiocarbonsäure. Sm. 33 bis 34°; Sd. 260° (*C. r.* 134, 715 *C. 1902* [1] 977; *Bl.* [3] 27, 592 *C. 1902* [2] 349).
- $C_7H_{11}ON_2$  9)  $\beta$ -Butyrylhydrazonpropan. Sm. 83° (*Bl.* [3] 27, 1054 *C. 1902* [2] 1411).
- 10) 3-Methylamido-2-Keto-1-Methylhexahydropyridin (*B.* 35, 621 *C. 1902* [1] 590).
- $C_7H_{11}ON_4$  C 49,4 — H 8,2 — O 9,4 — N 32,9 — M. G. 170.
- 1) Verbindung (aus Hexamethylentetramin u. Formaldehyd). (2 + 2HCl, 3HgCl<sub>2</sub>), (5 + 6HJ, 4HgJ<sub>2</sub>) (*C. r.* 127, 624). — \*I, 643.
- $C_7H_{11}O_3N_2$  \*2)  $\gamma\delta$ -Dioximidoheptan. Sm. 167,5° (*G. 32* [1] 423 *C. 1902* [2] 262).
- \*3) 3-Oximido-1-Hydroxylamido-1-Methylhexahydrobenzol + H<sub>2</sub>O. Oxalat (*B.* 34, 302; *B.* 35, 1171 *C. 1902* [1] 1008).
- 17) Amid d. Pentan- $\gamma\gamma$ -Dicarbonsäure. Sm. 224° (*B.* 35, 854 *C. 1902* [1] 746).
- $C_7H_{11}O_3N_6$  C 39,2 — H 6,5 — O 15,0 — N 39,2 — M. G. 214.
- 1)  $\beta\gamma$ -Disemicarbazonpentan. Sm. 251—252° (*B.* 34, 3978 *C. 1902* [1] 192).
- $C_7H_{11}O_3N_2$  7) Diamid d. Oxysäure  $C_7H_{13}O_5$  (aus Pilopinsäure). Sm. 160° (*Soc.* 79, 1337 *C. 1902* [1] 50).
- $C_7H_{11}O_4N_2$  12) Di[Dimethylamido]malonsäure. Sm. 133° u. Zers. (*B.* 35, 1387 *C. 1902* [1] 1091).
- $C_7H_{11}O_4N_4$  C 38,5 — H 6,4 — O 29,3 — N 25,7 — M. G. 218.
- 1) Aethylester d.  $\alpha\alpha$ -Diureidopropionsäure. Zers. bei 195—200° (*C. r.* 133, 588).
- $C_7H_{11}O_6N_2$  C 37,8 — H 6,3 — O 43,2 — N 12,6 — M. G. 222.
- 1) Verbindung (aus Harnstoff u. Glykose). Sm. 206° (*R.* 19, 399).
- $C_7H_{11}O_6N_6$  C 30,2 — H 5,0 — O 34,5 — N 30,2 — M. G. 278.
- 1) Methylenbiuret (*A.* 316, 245).
- $C_7H_{11}NCl$  3) 1-[ $\beta$ -Chloräthyl]hexahydropyridin. HCl, (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 34, 3556).
- 4) Äthylenpiperidiniumchlorid. 2 + PtCl<sub>4</sub> + AuCl<sub>3</sub> (*B.* 34, 3557).
- $C_7H_{11}N_3S$  7)  $\alpha\beta$ -Trimethyl- $\beta$ -Allylthioharnstoff (*Ar.* 233, 762). — \*I, 740.
- $C_7H_{15}ON$  \*14) 1-Äthylhexahydropyridin-N-Oxyd (*B.* 34, 748).
- \*15) Amid d. Hexan- $\alpha$ -Carbonsäure. Sm. 96° (*B.* 35, 3188 *C. 1902* [2] 1254).
- 22)  $\beta$ -Oximidoheptan. Sd. 111°<sub>21</sub> (*Bl.* [3] 25, 422).
- 23) Dimethylamid d. Isovaleriansäure. Sd. 188—192° (*D.R.P.* 129967 *C. 1902* [1] 959).
- $C_7H_{15}ON_3$  3)  $\beta$ -Semicarbazonhexan. Sm. 120—122° (*J. pr.* [2] 64, 115).
- 4)  $\gamma$ -Semicarbazonhexan. Sm. 118° (110°) (*C. 1901* [1] 726; *C. r.* 133, 1218 *C. 1902* [1] 299).
- 5)  $\delta$ -Semicarbazon- $\beta$ -Methylpentan. Sm. 129—130° (*B.* 34, 2120, 2123).
- $C_7H_{15}O_2N$  \*8)  $\zeta$ -Amidohexan- $\alpha$ -Carbonsäure. Sm. 186—187° (*B.* 35, 1369 *C. 1902* [1] 1091).
- \*16) Aethylester d. Isobutylamidoameisensäure. Sd. 99°<sub>10</sub> (*J. pr.* [2] 64, 416 *C. 1902* [1] 23).
- 30)  $\alpha$ -Oximido- $\alpha$ -Oxyheptan. (Oenanthhydroxamsäure). Sm. 75—76° (*G. 31* [2] 37).
- 31)  $\epsilon$ -Oximido- $\gamma$ -Oxy- $\beta\gamma$ -Dimethylpentan. Sd. 144°<sub>21</sub> (*M.* 22, 29).
- 32) Oxim d. Aldol  $C_7H_{14}O_2$ . Sd. 144°<sub>25</sub> (*M.* 22, 6).
- 33) Betain d. Trimethylamidobuttersäure + 3H<sub>2</sub>O. (2HCl, PtCl<sub>4</sub>) (*B.* 35, 617 *C. 1902* [1] 573).
- 34) Betain d. Methyläthylamidoessigsäure + H<sub>2</sub>O. Sm. 133—135° u. Zers. (*B.* 35, 608 *C. 1902* [1] 573).
- 35) Methylester d.  $\gamma$ -Dimethylamidobuttersäure. Sd. 171,5—173° (*B.* 35, 617 *C. 1902* [1] 573).
- 36) Methylester d. Diäthylamidoessigsäure. Sd. 163,5—164,5° (*B.* 35, 600, 608 *C. 1902* [1] 572).
- 37) Aethylester d.  $\alpha$ -Amidovaleriansäure. Sd. 68,5°<sub>3</sub>. Pikrat (*B.* 35, 404 *C. 1902* [1] 575).
- 38) Aethylester d.  $\beta$ -Amidoisovaleriansäure. Sd. 170°<sub>700</sub> (*B.* 35, 409 *C. 1902* [1] 575).
- 39) Aethylester d.  $\alpha$ -Amidoisovaleriansäure. Sd. 174°<sub>750</sub> u. ger. Zers. Bitartrat, Pikrat (*B.* 35, 401 *C. 1902* [1] 574).



- $C_7H_{15}O_2N$  40) Aethylester d.  $\alpha$ -Amido- $\alpha$ -Methylbuttersäure. Sd. 65—66°<sub>20</sub> (B. 35, 407 C. 1902 [1] 575).
- $C_7H_{15}O_3N$  41) Amidoformiat d.  $\beta$ -Oxy- $\gamma$ -Methylpentan. Sm. 65—66° (C. 1901 [1] 1303).
- 4)  $\delta$ -Nitro- $\varepsilon$ -Oxy- $\beta$ -Methylhexan. Sd. 132°<sub>30</sub> (C. 1902 [1] 400).
- 5) Trimethyläther d.  $\delta$ -Imido- $\alpha\alpha$ - $\delta$ -Trioxybutan. Sd. 67—68°<sub>7-8</sub> (B. 34, 1491).
- 6) Trimethyläther d.  $\delta$ -Oximido- $\alpha\alpha$ -Dioxybutan. Sd. 180—200° (B. 34, 1493).
- $C_7H_{15}O_3N_3$  2)  $\varepsilon$ -Semicarbazon- $\gamma$ -Methylpentan- $\alpha$ -Carbonsäure. Sm. 156—157° (B. 34, 1500).
- $C_7H_{15}O_4N$  C 47,5 — H 8,5 — O 36,1 — N 7,9 — M. G. 177.
- 1)  $\varepsilon$ -Nitro- $\delta\zeta$ -Dioxy- $\beta$ -Methylhexan. Sm. 103—104° (C. 1902 [1] 400).
- 2)  $\delta$ -Nitro- $\varepsilon$ -Oxy- $\delta$ -Oxymethyl- $\beta$ -Methylpentan. Sm. 98° (C. 1902 [1] 400).
- $C_7H_{15}O_7N$  2) Galaheptosaminsäure +  $H_2O$ . Sm. 240° n. Zers. Cu +  $2H_2O$  (B. 35, 3801 C. 1902 [2] 1415).
- $C_7H_{15}NS_2$  4) Dimethyläther d. Isobutylimidodimerkaptomethan. Sd. 225°.
- Pikrat (C. r. 134, 110 C. 1902 [1] 413; Bl. [3] 27, 63 C. 1902 [1] 577).
- 5) Diäthyläther d. Aethylimidodimerkaptomethan. Sd. 223—224°.
- (2HCl, PtCl<sub>4</sub>) Pikrat (C. r. 134, 100 C. 1902 [1] 413; Bl. [3] 27, 63 C. 1902 [1] 577).
- 6) Dipropylamidodithioameisensäure. Dipropylaminsalz (B. 35, 820).
- $C_7H_{15}N_2Cl$  1) Nitril d. Methyl-diäthylchlorammoniumessigsäure. + AuCl<sub>3</sub> (J. pr. [2] 65, 195 C. 1902 [1] 982).
- $C_7H_{15}N_2J$  2) Nitril d. Methyl-diäthyljodammoniumessigsäure. Sm. 205° (J. pr. [2] 65, 194 C. 1902 [1] 982).
- $C_7H_{15}N_4J_3$  2) Hexamethylenetetramin + Jodoform. Zers. bei 178° (D.R.P. 87812). — \*I, 643.
- $C_7H_{15}ON_2$  15)  $\gamma$ -Aethylnitrosamidopentan. Sd. 101—102°<sub>16</sub> (J. pr. [2] 63, 206).
- 16) Nitril d. Methyl-diäthylammoniumhydroxydessigsäure. Salze siehe (J. pr. [2] 65, 194 C. 1902 [1] 982).
- $C_7H_{15}O_2N_2$  C 52,5 — H 10,0 — O 20,0 — N 17,5 — M. G. 160.
- 1) Methyl ester d. Di[Dimethylamido]essigsäure. Sd. 57—58°<sub>12,5</sub> (B. 35, 1382 C. 1902 [1] 1090).
- $C_7H_{15}O_6N_2$  C 37,5 — H 7,1 — O 42,9 — N 12,5 — M. G. 224.
- 1)  $\beta\gamma\delta\varepsilon\zeta$ -Pentaoxyhexylharnstoff (Galaktaminharnstoff). Sm. 180° (C. r. 135, 692 C. 1902 [2] 1356).
- 2)  $\beta\gamma\delta\varepsilon\zeta$ -Pentaoxyhexylharnstoff (Glykaminharnstoff). Sm. 149° (C. r. 134, 292 C. 1902 [1] 565).
- $C_7H_{15}NJ$  4) Jodmethylat d. 1-Methylhexahydropyridin. Zers. bei 334° (B. 35, 1076 C. 1902 [1] 938).
- $C_7H_{17}ON$  \*9)  $\gamma$ -Aethylhydroxylamidopentan (Aethyl  $\alpha$ -Aethylpropylhydroxylamin). Sd. 167,5—170°<sub>750</sub>. HCl, HJ, Oxalat (J. pr. [2] 63, 204).
- 11)  $\beta$ -Isoamylamido- $\alpha$ -Oxyäthan. Fl. Pikrat, Pikrolonat (A. 315, 120).
- 12)  $\gamma$ -Hydroxylamido- $\gamma$ -Aethylpentan. Sm. 68,5—69,5°; Sd. 185°. HCl (J. pr. [2] 63, 237).
- 13)  $\beta$ -Aethylhydroxylamido- $\beta$ -Methylbutan. Sd. 58,5—60,5°<sub>12</sub>. HCl, HBr (J. pr. [2] 63, 218).
- 14) Base (aus Suberonisooxim). Sm. 48—50°; Sd. 250°. HCl, (2HCl, PtCl<sub>4</sub>) (A. 324, 309 C. 1902 [2] 1507).
- 15) Base (aus  $\beta$ -Methyleylohexanon- $\beta$ -Isooxim). Sd. 242—245° (A. 324, 300 C. 1902 [2] 1507).
- 16) Base (aus  $\beta$ -Methyleylohexanon- $\alpha$ -Isooxim). Sd. 245—249° (A. 324, 298 C. 1902 [2] 1507).
- $C_7H_{17}O_2N$  6) Propyl-di[ $\beta$ -Oxyäthyl]amin. Fl. Pikrat, Pikrolonat (A. 315, 128).
- 7) Isopropyl-di[ $\beta$ -Oxyäthyl]amin. Sd. 261°. Pikrat, Pikrolonat (A. 315, 132).
- $C_7H_{17}O_4P$  8) Diäthyläther d.  $\gamma$ -Amido- $\alpha\alpha$ -Dioxypropan. Sd. 80°<sub>18</sub> (B. 34, 1916).
- 2) Methyl ester d. Di[ $\alpha$ -Oxyisopropyl]unterphosphorigesäure. Sm. 92° (C. r. 133, 819 C. 1902 [1] 21).
- 3) Diäthylester d.  $\alpha$ -Oxyisopropylphosphinsäure. Fl. (C. r. 135, 106 C. 1902 [2] 504).



- $C_7HONCl_4$  1) Nitril d. 2,4,5,6-Tetrachlor-3-Oxybenzol-1-Carbonsäure. Sm. 219—220° (*B.* 34, 4126 *C.* 1902 [1] 190).
- $C_7HO_2NCl_3$  1) 2,3,5-Trichlor-4,6-Dinitrobenzol-1-Carbonsäure (*Soc.* 79, 48).
- $C_7H_2O_2NCl_3$  1) 1,1,3,5,6-Pentachlor-4-Keto-2-Oxidomethyl-1,4-Dihydrobenzol. Sm. 169° (*B.* 34, 4121 *C.* 1902 [1] 190).
- $C_7H_2O_3NCl_3$  2) 2,3,5-Trichlor-4- oder -6-Nitrobenzol-1-Carbonsäure. Sm. 158°.  $Ba + 5H_2O$  (*Soc.* 79, 48). — \*II, 779.
- $C_7H_3O_2N_2Cl$  1) Nitril d. 2-Chlor-3,5-Dinitrobenzol-1-Carbonsäure. Sm. 139° (*R.* 20, 418 *C.* 1902 [1] 419).
- $C_7H_3ONCl_2$  \*) 3,6-Dichloranthranil. Sm. 112,5—113,2° (*B.* 34, 3876 *C.* 1902 [1] 116).
- $C_7H_3ON_3Cl_2$  1) 4,6-Dichlor-3-Oximido-1,2-Benzisodiazol (Dichlorindiazonoxim). Sm. 168,5° (*B.* 34, 1323).
- 2) Aldehyd d. 3,6-Dichloridiazobenzolimid-2-Carbonsäure. Sm. 86—86,3° (*B.* 34, 1324; *B.* 34, 3876 *C.* 1902 [1] 116).
- $C_7H_3ON_3Br_2$  1)  $\beta$ -Dibrom-3-Oximido-1,2-Benzisodiazol (Dibromindiazonoxim). Zers. bei 178° (*B.* 34, 1327).
- 2) Aldehyd d.  $\beta$ -Dibromdiazobenzolimid-2-Carbonsäure. Sm. 75,5—76° (*B.* 34, 1328).
- $C_7H_3OCl_1Br$  1) 2,3,5,6-Tetrachlor-4-Oxy-1-Brommethylbenzol (2,3,5,6-Tetrachlor-4-Keto-1-Brommethyl-1,4-Dihydrobenzol). Sm. 159—160° (*A.* 320, 184 *C.* 1902 [1] 651).
- $C_7H_3O_2NCl_1$  2) 2,4,5,6-Tetrachlor-3-Oxy-1-Oxidomethylbenzol. Sm. 194 bis 195° (*B.* 34, 4125 *C.* 1902 [1] 190).
- 3) Amid d. 2,4,5,6-Tetrachlor-3-Oxybenzol-1-Carbonsäure. Sm. 260—261° (*B.* 34, 4126 *C.* 1902 [1] 190, 191).
- $C_7H_3O_2Cl_1Br_2$  3) Chlorid d. 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 118° bis 120° (*M.* 22, 439).
- $C_7H_3O_2Cl_1Br$  1) 2,3,5,6-Tetrachlor-1-Oxy-4-Keto-1-Brommethyl-1,4-Dihydrobenzol. Sm. 163—164° (*A.* 320, 194 *C.* 1902 [1] 652).
- $C_7H_3O_2Cl_1P$  1) Verbindung (aus 5-Chlor-2-Oxybenzol-1-Carbonsäure u.  $PCl_5$ ). Sd. 189—190°<sub>15</sub> (*D.R.P.* 89556). — \*II, 894.
- $C_7H_3O_2NCl_1$  1) 2,3,5,6-Tetrachlor-1-Nitro-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 140° u. Zers. (*A.* 320, 189 *C.* 1902 [1] 651).
- $C_7H_3O_2NBr_2$  4) 3,6- oder 5,6-Dibrom-5 oder 3-Nitro-2-Methyl-1,4-Benzochinon. Sm. 175—180° u. Zers. (*J. pr.* [2] 63, 187).
- $C_7H_3O_2N_2Cl_3$  \*) 3,4,6-Trichlor-2,5-Dinitro-1-Methylbenzol. Sm. 226—227° (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- \*) 2) 4,5,6-Trichlor-2,3-Dinitro-1-Methylbenzol. Sm. 140—141° (*Soc.* 81, 1328 *C.* 1902 [2] 1179).
- 3) 3,5,6-Trichlor-2,4-Dinitro-1-Methylbenzol. Sm. 149—150° (*Soc.* 81, 1331 *C.* 1902 [2] 1179).
- 4) 3,4,5-Trichlor-2,6-Dinitro-1-Methylbenzol. Sm. 163—164° (*Soc.* 81, 1338 *C.* 1902 [2] 1180).
- 5) 2,5,6-Trichlor-3,4-Dinitro-1-Methylbenzol. Sm. 140—142° (*Soc.* 81, 1332 *C.* 1902 [2] 1179).
- 6) 2,4,6-Trichlor-3,5-Dinitro-1-Methylbenzol. Sm. 178—180° (*Soc.* 81, 1336 *C.* 1902 [2] 1179).
- $C_7H_3O_2N_2Cl$  2) Chlorid d. 2,4-Dinitrobenzol-1-Carbonsäure. Sm. 41—42° (*J. pr.* [2] 65, 294 *C.* 1902 [1] 1217).
- 3) Chlorid d. 3,5-Dinitrobenzol-1-Carbonsäure. Sm. 74°; Sd. 196°<sub>10—11</sub> (*J. pr.* [2] 65, 291 *C.* 1902 [1] 1217).
- $C_7H_3O_2N_2Cl$  \*) 2-Chlor-3,5-Dinitrobenzol-1-Carbonsäure. Sm. 196° (199—200°); Sd. 240—241°.  $NH_4$ , K, Cu, Ni, Co, Pb, Ag (*R.* 20, 235; *M.* 22, 386; *G.* 32 [1] 526 *C.* 1902 [2] 581; *G.* 32 [1] 573 *C.* 1902 [2] 582).
- $C_7H_4ONCl_3$  6) Amid d. 2,3,5-Trichlorbenzol-1-Carbonsäure. Sm. 204—205° (*Soc.* 79, 47). — \*II, 765.
- $C_7H_4ON_3Cl$  1) 3-Chlor-2-Nitrosindiazol. Sm. 89—90° (*B.* 34, 797).
- 2) Azid d. 3-Chlorbenzol-1-Carbonsäure. Fl. (*J. pr.* [2] 64, 331).
- $C_7H_4OCl_1Br$  \*) 3) Chlorid d. 4-Brombenzol-1-Carbonsäure (*M.* 22, 779).
- $C_7H_4OCl_1J$  \*) 2) Chlorid d. 4-Jodbenzol-1-Carbonsäure. Sm. 83° (*M.* 22, 780).

- $C_7H_4O_2NCl_3$  \* 2) 2,3,4-Trichlor- $\beta$ -Nitro-1-Methylbenzol. (*Soc.* 81, 1328 *C.* 1902 [2] 1179).
- 6) 3,4,5-Trichlor-2-Nitro-1-Methylbenzol. *Sm.* 81—82° (*Soc.* 81, 1338 *C.* 1902 [2] 1180).
- 7) 2,4,6-Trichlor-3-Nitro-1-Methylbenzol. *Sm.* 54° (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- 8) 2,3,5-Trichlor- $\beta$ -Nitro-1-Methylbenzol. *Sm.* 58—59° (*Soc.* 81, 1330 *C.* 1902 [2] 1179).
- 9) 2,3,6-Trichlor- $\beta$ -Nitro-1-Methylbenzol. *Sm.* 57—58° (*Soc.* 81, 1332 *C.* 1902 [2] 1179).
- 10) 2,4,5-Trichlor- $\beta$ -Nitro-1-Methylbenzol. *Sm.* 91—92° (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- 11) 3,5,6-Trichlor-2-Amidobenzol-1-Carbonsäure. *Sm.* 180° (*B.* 34, 2110).
- $C_7H_4O_3NCl$  \* 5) Chlorid d. 2-Nitrobenzol-1-Carbonsäure. *Sm.* 24—25° (*Bl.* [3] 25, 695).
- $C_7H_4O_3NBr_3$  3) lab. 2,4,6-Tribrom-3-Oxy-1-Nitromethylbenzol. *Sm.* 135—136° (*B.* 34, 4287 *C.* 1902 [1] 310). — \*II, 431.
- $C_7H_4O_3ClBr$  1) 6-Chlor-2-Brom-3-Oxybenzol-1-Carbonsäure +  $H_2O$ . *Sm.* 194 bis 195° (*G.* 31 [2] 365 *C.* 1902 [1] 38; *G.* 32 [1] 551 *C.* 1902 [2] 638).
- 2) 2-Chlor-6-Brom-3-Oxybenzol-1-Carbonsäure +  $H_2O$ . *Sm.* 116 bis 118° (*G.* 31 [2] 368 *C.* 1902 [1] 38; *G.* 32 [1] 550 *C.* 1902 [2] 638).
- $C_7H_4O_3NCl$  \* 1) 3-Chlor-2-Nitrobenzol-1-Carbonsäure. *Sm.* 235° (*R.* 20, 212, 361).
- \* 3) 5-Chlor-2-Nitrobenzol-1-Carbonsäure. *Sm.* 139°. *K.* (*R.* 20, 212, 361).
- \* 4) 6-Chlor-2-Nitrobenzol-1-Carbonsäure. *Sm.* 161° (*M.* 22, 480).
- \* 7) 6-Chlor-3-Nitrobenzol-1-Carbonsäure. *Sm.* 164°. *K.* (*R.* 20, 208, 361; *G.* 32 [1] 534 *C.* 1902 [2] 582).
- 12) 3- oder 5-Chlor-5- oder 3-Nitro-2-Methyl-1,4-Benzochinon. *Sm.* 128° u. Zers. (*J. pr.* [2] 63, 186).
- 13) 2-Chlor-3-Nitrobenzol-1-Carbonsäure. *Sm.* 185° (*R.* 20, 209, 361; *R.* 21, 56 *C.* 1902 [1] 1003).
- $C_7H_4O_4NBr$  \* 1) 3-Brom-2-Nitrobenzol-1-Carbonsäure. *Sm.* 250° (*R.* 20, 215, 362).
- \* 3) 5-Brom-2-Nitrobenzol-1-Carbonsäure. *Sm.* 140°. 7 +  $2C_6H_6$  (*R.* 20, 215, 362).
- \* 6) 6-Brom-3-Nitrobenzol-1-Carbonsäure. *Sm.* 180° (*R.* 20, 211, 361).
- 11) 3- oder 5-Brom-5- oder 3-Nitro-2-Methyl-1,4-Benzochinon. *Sm.* 135—136° u. Zers. (*J. pr.* [2] 63, 186).
- 12) 2-Brom-3-Nitrobenzol-1-Carbonsäure. *Sm.* 191° (*R.* 20, 211, 362).
- $C_7H_4O_4N_2Cl_2$  3) 3,6-Dichlor-2,4-Dinitro-1-Methylbenzol. *Sm.* 100—101° (*Soc.* 79, 1131; *Soc.* 81, 1347 *C.* 1902 [2] 1180).
- 4) 5,6-Dichlor-2,4-Dinitro-1-Methylbenzol. *Sm.* 71—72° (*Soc.* 79, 1128; *Soc.* 81, 1347 *C.* 1902 [2] 1180).
- 5) 3,4-Dichlor-2,6-Dinitro-1-Methylbenzol. *Sm.* 91,5—92,5° (*Soc.* 79, 1133; *Soc.* 81, 1349 *C.* 1902 [2] 1180).
- 6) 3,5-Dichlor-2,6-Dinitro-1-Methylbenzol. *Sm.* 99—100° (*Soc.* 79, 1134; *Soc.* 81, 1349 *C.* 1902 [2] 1180).
- 7) 2,4-Dichlor-3,5-Dinitro-1-Methylbenzol. *Sm.* 104° (*Soc.* 79, 1129; *Soc.* 81, 1348 *C.* 1902 [2] 1180).
- 8) 2,6-Dichlor-3,5-Dinitro-1-Methylbenzol. *Sm.* 121—122° (*Soc.* 79, 1132; *Soc.* 81, 1346 *C.* 1902 [2] 1180).
- $C_7H_4O_4N_2Br_2$  6) 2,4-Dibrom-3,5-Dinitro-1-Methylbenzol. *Sm.* 127,5° (*Soc.* 81, 873 *C.* 1902 [2] 32).
- $C_7H_4O_8N_5Cl$  1) 3-Chlor-2,4,6-Trinitro-1-Methylamidobenzol. *Sm.* 119° (*R.* 21, 276 *C.* 1902 [2] 514).
- $C_7H_4O_8N_5Br$  1) 3-Brom-2,4,6-Trinitro-1-Methylnitramidobenzol. *Sm.* 127° (*R.* 21, 278 *C.* 1902 [2] 515).
- $C_7H_5ONBr_2$  11) Aldehyd d.  $\beta$ -Dibrom-2-Amidobenzol-1-Carbonsäure. *Sm.* 137 bis 137,5° (*B.* 34, 1338).
- $C_7H_5O_2NCl_2$  \* 2) 2,3-Dichlor-4-Nitro-1-Methylbenzol. *Sm.* 50,5—51,5° (*Soc.* 79, 1128; *Soc.* 81, 1347 *C.* 1902 [2] 1180).
- \* 3) 4,6-Dichlor-3-Nitro-1-Methylbenzol. *Sm.* 54—55° (*Soc.* 75, 1129).
- \* 8) 3,6-Dichlor-2-Amidobenzol-1-Carbonsäure. *Sm.* 154,5—155° (*B.* 34, 1326).

- $C_7H_5O_2NCl_2$  11) 3,5-Dichlor-2-Nitro-1-Methylbenzol. Sm. 61—62° (Soc. 79, 1134; Soc. 81, 1348 C. 1902 [2] 1180).  
 12) 4,5-Dichlor-2-Nitro-1-Methylbenzol. Sm. 63—64° (Soc. 79, 1133; Soc. 81, 1349 C. 1902 [2] 1180).  
 13) 2,5-Dichlor-3-Nitro-1-Methylbenzol. Sm. 54—55° (Soc. 81, 1330 C. 1902 [2] 1179).  
 14) 2,6-Dichlor-3-Nitro-1-Methylbenzol. Sm. 53° (Soc. 79, 1132; Soc. 81, 1346 C. 1902 [2] 1180).  
 15) 4,5-Dichlor-3-Nitro-1-Methylbenzol. Sm. 49—50° (Soc. 81, 1338 C. 1902 [2] 1180).  
 16) 2,5-Dichlor-4-Nitro-1-Methylbenzol. Sm. 50—51° (Soc. 79, 1130; Soc. 81, 1347 C. 1902 [2] 1180).
- $C_7H_5O_2NBr_2$  21) 4,6-Dibrom-3-Nitro-1-Methylbenzol (Soc. 81, 872 C. 1902 [2] 32).  
 22) p-Dibrom-2-Amidobenzol-1-Carbonsäure. Sm. 235—236° u. Zers. (B. 34, 1329).
- $C_7H_5O_2N_2Br_3$  2) 2,4,6-Tribrom-1-Methylnitramidobenzol. Sm. 95,5° (Soc. 81, 809 C. 1902 [1] 1325).
- $C_7H_5O_2ClHg$  \* 1) Quecksilberphenylchlorid-2-Carbonsäure.  $K + 1\frac{1}{2}H_2O$ ,  $Ba + 3H_2O$  (G. 32 [2] 284 C. 1902 [2] 1454).  
 2) Quecksilberphenylchlorid-4-Carbonsäure. Sm. 272° (A. 315, 35).
- $C_7H_5O_3NCl_2$  2) Methyläther d. 3,4-Dichlor-2-Nitro-1-Oxybenzol. Sm. 128° (Soc. 81, 997 C. 1902 [2] 698).
- $C_7H_5O_3NBr_2$  \* 7) Methyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 122° (B. 35, 1130 C. 1902 [1] 914).  
 11) 3,5-Dibrom-2-Oxy-1-Nitromethylbenzol. Sm. 92—93° (B. 34, 4286 C. 1902 [1] 310). — \* II, 426.  
 12) 3,5-Dibrom-1-Nitro-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 62 bis 65° u. Zers. (B. 35, 457 C. 1902 [1] 645).
- $C_7H_5O_3NJ_2$  1) Methyläther d. 2,6-Dijod-4-Nitro-1-Oxybenzol. Sm. 133—134° (C. r. 134, 359 C. 1902 [1] 638).
- $C_7H_5O_3NS$  \* 3) Saccharin. Salze siehe [B. 3] 25, 322; B. 34, 3159).
- $C_7H_5O_4NBr_2$  2) 3,4- oder -3,6-Dibrom-6 oder 4-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 157—158° (J. pr. [2] 63, 187). — \* II, 579.  
 3) Amid d. 2,6-Dibrom-3,4,5-Trioxybenzol-1-Carbonsäure  $+ 3\frac{1}{2}H_2O$ . Sm. 241—243° (245° wasserfrei) (J. pr. [2] 63, 84).
- $C_7H_5O_4N_2Cl$  \* 5) 2,4-Dinitro-1-Chlormethylbenzol. Sm. 34° (B. 35, 1266 C. 1902 [1] 1102; M. 23, 545 C. 1902 [2] 741).  
 \* 6) 6-Chlor-2,3-Dinitro-1-Methylbenzol. Sm. 106° (M. 22, 475).
- $C_7H_5O_4N_2Br$  5) 2-Brom-3,5-Dinitro-1-Methylbenzol. Sm. 82° (R. 20, 428 C. 1902 [1] 418).
- $C_7H_5O_4N_2Br_2$  1) 4,6-Dibrom-2-Nitro-1-Methylnitramidobenzol. Sm. 90° (R. 21, 273 C. 1902 [2] 514).  
 2) 2,6-Dibrom-4-Nitro-1-Methylnitramidobenzol. Sm. 84° (R. 21, 271 C. 1902 [2] 514).
- $C_7H_5O_5N_2Cl$  \* 2) Methyläther d. 4-Chlor-2,6-Dinitro-1-Oxybenzol. Sm. 65° (B. 34, 3342).
- $C_7H_5O_6N_2S$  1) Methyläther d. 2,4,6-Trinitro-1-Merkaptobenzol. Sm. 98° (R. 20, 427 C. 1902 [1] 418).
- $C_7H_5O_6N_4Cl$  1) 4-Chlor-2,6-Dinitro-1-Methylnitramidobenzol. Sm. 100° (R. 21, 274 C. 1902 [2] 514).
- $C_7H_5O_6N_4Br$  1) 6-Brom-2,4-Dinitro-1-Methylnitramidobenzol. Sm. 125° (R. 21, 271 C. 1902 [2] 514).  
 2) 4-Brom-2,6-Dinitro-1-Methylnitramidobenzol. Sm. 110° (R. 21, 272 C. 1902 [2] 514).
- $C_7H_5O_7N_2S$  1) Methyl-2,4,6-Trinitrophenylsulfoxyd. Sm. 210° (R. 20, 427 C. 1902 [1] 418).
- $C_7H_5ONCl$  \* 9) Chloramid d. Benzolcarbonsäure. Sm. 117° (B. 35, 2750 C. 1902 [2] 640).
- $C_7H_5ONBr$  \* 8) Bromamid d. Benzolcarbonsäure (B. 35, 255).
- $C_7H_5ONJ$  8) Amid d. 3-Jodbenzol-1-Carbonsäure. Sm. 186,5° (Am. 21, 290). — \* II, 768.  
 9) Amid d. 4-Jodbenzol-1-Carbonsäure. Sm. 209° (217,5°) (M. 22, 780; Am. 21, 290). — \* II, 768.
- $C_7H_5ON_2Cl_2$  \* 1) 3,6-Dichlor-2-Amidobenzaldoxim. Sm. 84—85° (B. 34, 1322).

- $C_7H_6ON_2Br_2$  3) *p*-Dibrom-2-Amido-1-Oximidomethylbenzol. Sm. 189° (*B.* 34, 1327).
- 4) anti-3,5-Dibrom-4-Methyldiazobenzol. K (*B.* 35, 2976 *C.* 1902 [2] 1105).
- $C_7H_6OCl_3J$  1) Methyläther d. 4-Chlor-2-Oxyphenyljodidchlorid (*B.* 31, 1713). — \*II, 375.
- $C_7H_6O_2NCl$  \*20) 2-Chlor-3-Amidobenzol-1-Carbonsäure. Sm. 160,5—161° (158°) (*B.* 35, 3707 *C.* 1902 [2] 1448; *R.* 21, 57 *C.* 1902 [1] 1003).
- \*21) 4-Chlor-3-Amidobenzol-1-Carbonsäure. Sm. 216—217° (*B.* 35, 3709 *C.* 1902 [2] 1449).
- \*23) 6-Chlor-3-Amidobenzol-1-Carbonsäure. Sm. 188—188,5° (*B.* 35, 3703 *C.* 1902 [2] 1448).
- 33) 4-Chlor-2-Amidobenzol-1-Carbonsäure. Sm. 235—236° (*M.* 22, 485).
- 34) 6-Chlor-2-Amidobenzol-1-Carbonsäure. Sm. 146—147° (*M.* 22, 488).
- $C_7H_6O_2N_2Br_2$  3) 4,6-Dibrom-2-Nitro-1-Methylamidobenzol. Sm. 100° (*R.* 21, 272 *C.* 1902 [2] 514).
- 4) 2,6-Dibrom-4-Nitro-1-Methylamidobenzol. Sm. 113° (*R.* 21, 271 *C.* 1902 [2] 513; *R.* 21, 275 *C.* 1902 [2] 514).
- 5) 3,5-Dibrom-2-Nitramido-1-Methylbenzol. Sm. 112° (Zers. bei 122°).  $Ba + H_2O$  (*Soc.* 81, 813 *C.* 1902 [1] 1325).
- 6) 3,5-Dibrom-4-Nitramido-1-Methylbenzol. Sm. 122—123° u. Zers.  $Ba + H_2O$  (*Soc.* 81, 813 *C.* 1902 [1] 1325).
- 7) Methyläther d. 2,6-Dibrom-4-Nitrosamido-1-Oxybenzol (*B.* 35, 2971 *C.* 1902 [2] 1104).
- 8) 4-Methyläther d. anti-3,5-Dibrom-4-Oxydiazobenzol. K (*B.* 35, 2969 *C.* 1902 [2] 1104).
- 9) 4-Methyläther d. syn-3,5-Dibrom-4-Oxydiazobenzol. K (*B.* 35, 2969 *C.* 1902 [2] 1104).
- $C_7H_6O_2N_3S$  \*1) Cyanamid d. Benzolsulfonsäure (*B.* 35, 1005 *C.* 1902 [1] 868).
- $C_7H_6O_2Cl_2S$  \*2) Chlorid d. 2-Chlor-1-Methylbenzol-4-Sulfonsäure. Sm. 38° (*D.R.P.* 133000 *C.* 1902 [2] 314).
- $C_7H_6O_3Br_4S_3$  1) Methylester d. Säure  $C_6H_4O_3Br_4S_3$ . Sm. 146—147° (*B.* 34, 215).
- $C_7H_6O_3J_2S$  1) Dijodmethylphenylsulfon. Sm. 96—97° (*Ph. Ch.* 34, 586). — \*II, 468.
- $C_7H_6O_3NCl$  8) 3-Nitro-4-Oxy-1-Chlormethylbenzol. Sm. 72° (*B.* 34, 2459).
- 9) 2-Nitro-1-Oxy-*p*-Chlormethylbenzol. Sm. 75° (*D.R.P.* 132475 *C.* 1902 [2] 81).
- 10) 4-Nitro-1-Oxy-*p*-Chlormethylbenzol. Sm. 132° (*D.R.P.* 132475 *C.* 1902 [2] 81).
- 11) Methyläther d. 3-Chlor-2-Nitro-1-Oxybenzol. Sm. 54° (*Soc.* 81, 996 *C.* 1902 [2] 354, 697).
- 12) Äthyläther d. 5-Chlor-3-Nitro-1-Oxybenzol. Sm. 91° (*R.* 20, 113).
- 13) 5-Chlor-3-Amido-2-Oxybenzol-1-Carbonsäure. Sm. 236° u. Zers. (*D.R.P.* 137118 *C.* 1902 [2] 1439).
- $C_7H_6O_3NBr$  \*8) 5-Brom-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 69° (*B.* 35, 458 *C.* 1902 [1] 646).
- 9) 2-Nitro-1-Oxy-*p*-Brommethylbenzol. Sm. 76° (*D.R.P.* 132475 *C.* 1902 [2] 81).
- $C_7H_6O_3NJ$  \*4) Methyläther d. 2-Jod-4-Nitro-1-Oxybenzol. Sm. 97° (*C. r.* 134, 360 *C.* 1902 [1] 638).
- 10) 2-Nitro-1-Oxy-*p*-Jodmethylbenzol. Sm. 112° (*D.R.P.* 132475 *C.* 1902 [2] 81).
- 11) 4-Nitro-1-Oxy-*p*-Jodmethylbenzol. Sm. 199° (*D.R.P.* 132475 *C.* 1902 [2] 81).
- 12) Methyläther d. 6-Jod-2-Nitro-1-Oxybenzol. Sm. 60—61° (*C. r.* 134, 359 *C.* 1902 [1] 638).
- 13) Methyläther d. 6-Jod-3-Nitro-1-Oxybenzol. Sm. 127—128° (*C.* 1901 [2] 97).
- $C_7H_6O_4NCl$  1) 1-Methyläther d. 4-Chlor-2-Nitro-1,3-Dioxybenzol. Sm. 89° (*Soc.* 81, 999 *C.* 1902 [2] 698).
- $C_7H_6O_4NBr$  3) 4- oder 6-Brom-6- oder 4-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 175° (*J. pr.* [2] 63, 186). — \*II, 578.

- $C_7H_6O_4NBr$  4) Amid d. 2-Brom-3,4,5-Trioxymethyl-1-Carbonsäure +  $2\frac{1}{2}H_2O$ . Sm. 204—205° (wasserfrei) (*J. pr.* [2] 63, 84).
- $C_7H_6O_4NJ$  2) 1-Methyläther d. 6-Jod-4-Nitro-1,3-Dioxybenzol. Sm. 115—116° (*Soc.* 77, 1173; *C.* 1901 [2] 96).
- $C_7H_6O_6N_2S$  4) 1-Amid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. K (*Am.* 25, 212). — \*II, 806.
- $C_7H_6O_4NAS$  1) 3-Nitrophenylarsinsäure-4-Carbonsäure. Sm. noch nicht bei 300° (*A.* 320, 325 *C.* 1902 [1] 922).
- $C_7H_6O_4N_2S$  \*2) 2,6-Dinitro-1-Methylbenzol-4-Sulfonsäure. Ba +  $4H_2O$  (*B.* 34, 2995).
- $C_7H_6O_4N_2S$  5) 2-Dinitro-1-Methylbenzol-4-Sulfonsäure.  $NH_4$  (*B.* 34, 2994).
- $C_7H_6O_4N_2S$  1) 2,4-Dinitro-3-Oxy-1-Methylbenzol-6-Sulfonsäure (D.R.P. 129283 *C.* 1902 [1] 690).
- $C_7H_7ONCl_2$  3) Methyläther d. 3,4-Dichlor-2-Amido-1-Oxybenzol. Fl. HCl (*Soc.* 81, 998 *C.* 1902 [2] 698).
- $C_7H_7ONBr_2$  \*2) 3,5-Dibrom-2-Keto-4,6-Dimethyl-1,2-Dihydropyridin. Sm. 253° u. Zers. (*C.* 1901 [1] 1053; *Soc.* 81, 103).
- $C_7H_7ON_2Cl$  \*5) Methyläther d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 64—65°. HCl (*B.* 35, 1131 *C.* 1902 [1] 915).
- $C_7H_7ON_2Cl$  9) Hydrazid d. 3-Chlorbenzol-1-Carbonsäure. Sm. 158°. HCl (*J. pr.* [2] 64, 326).
- $C_7H_7OClHg$  3) 6-Oxy-3-Methylphenylquecksilberchlorid. Sm. 166° (*C.* 1901 [1] 453; *B.* 35, 2857 *C.* 1902 [2] 1037).
- $C_7H_7OCl_2J$  1) Methyläther d. 2-Oxyphenyljodidchlorid (*B.* 31, 1710). — \*II, 374.
- $C_7H_7OCl_2As$  \*1) Methyläther d. 4-Oxyphenyldichlorarsin. Sm. 48°; Sd. 160°<sub>30</sub> (*A.* 320, 298 *C.* 1902 [1] 920).
- $C_7H_7OJF_2$  1) 1-Methylbenzol-2-Jodofluorid. Sm. 120°. Zers. bei 190° (*B.* 34, 2632).
- $C_7H_7OJHg$  2) 1-Methylbenzol-4-Jodofluorid. Zers. bei 206° (*B.* 34, 2633).
- $C_7H_7O_2NS$  \*4) Methyläther d. 2-Oxyphenylquecksilberjodid. Sm. 168° (*C.* 1901 [1] 451).
- $C_7H_7O_2NS$  3) 6-Oxy-3-Methylphenylquecksilberjodid. Zers. oberh. 170° (*C.* 1901 [1] 453; *B.* 35, 2857 *C.* 1902 [2] 1037).
- $C_7H_7O_2NS_2$  9) Methyläther d. 4-Nitro-1-Merkaptobenzol. Sm. 67° (*R.* 20, 403 *C.* 1902 [1] 417).
- $C_7H_7O_2N_2Cl$  1) Methylester d. 2,6-Dimerkaptopyridin-4-Carbonsäure. Sm. 156° (*B.* 35, 2936 *C.* 1902 [2] 1055).
- $C_7H_7O_2N_2Cl$  \*1) 5-Chlor-3-Nitro-2-Amido-1-Methylbenzol. Sm. 129—130° (*Soc.* 81, 1330 *C.* 1902 [2] 1179).
- $C_7H_7O_2N_2Cl$  \*5) 5-Chlor-3-Nitro-4-Amido-1-Methylbenzol. Sm. 72—73° (*Soc.* 81, 1338 *C.* 1902 [2] 1180).
- $C_7H_7O_2N_2Br$  \*7) 4-Chlor-2-Nitro-1-Methylamidobenzol. Sm. 108° (*R.* 21, 273 *C.* 1902 [2] 514).
- $C_7H_7O_2N_2Br$  13) 5-Chlor-2-Nitro-1-Methylamidobenzol. Sm. 104—105° (106°) (*B.* 34, 1095; *C.* 1901 [1] 154; *R.* 21, 276 *C.* 1902 [2] 514).
- $C_7H_7O_2N_2Br$  14) 3-Chlor-2-Nitro-1-Methylamidobenzol. Sm. 120° (*B.* 33, 2507). — \*II, 285.
- $C_7H_7O_2N_2Br$  15) 2-Chlor-3,5-Diamidobenzol-1-Carbonsäure. 2 HCl,  $H_2SO_4 + H_2O$  (*C.* 1902 [1] 1293).
- $C_7H_7O_2N_2Br$  \*8) 4-Brom-2-Nitro-1-Methylamidobenzol. Sm. 101—102° (*R.* 21, 272 *C.* 1902 [2] 514).
- $C_7H_7O_2N_2Cl$  11) 5-Brom-2-Nitro-1-Methylamidobenzol. Sm. 115° (*R.* 21, 277 *C.* 1902 [2] 515).
- $C_7H_7O_2N_2Cl$  12) 2-Brom-4-Nitro-1-Methylamidobenzol. Sm. 118° (*R.* 21, 270 *C.* 1902 [2] 513).
- $C_7H_7O_2ClS$  \*2) Chlorid d. 1-Methylbenzol-2-Sulfonsäure (*C.* 1901 [2] 961).
- $C_7H_7O_2N_2Cl$  1) Methyläther d. 4-Chlor-5-Nitro-2-Amido-1-Oxybenzol. Sm. 132° (D.R.P. 131364 *C.* 1902 [1] 1382).
- $C_7H_7O_4NS$  \*8) 2-Amid d. Benzol-1-Carbonsäure-2-Sulfonsäure (*B.* 34, 3159).
- $C_7H_7O_4NS$  \*11) 4-Amid d. Benzol-1-Carbonsäure-4-Sulfonsäure (*B.* 34, 3162).
- $C_7H_7O_4JS$  13) Aldehyd d. 4-Amidobenzol-1-Carbonsäure-2-Sulfonsäure (*B.* 29, [2] 530; *C.* 1901 [1] 1073).
- $C_7H_7O_4JS$  2) 2-Jod-4-Oxy-1-Methylbenzol-2-Sulfonsäure (D.R.P. 45226). — \*II, 495.



- $C_7H_7O_5NS$  \*2) 2-Nitro-1-Methylbenzol-4-Sulfonsäure.  $NH_4$ , Anilinsalz (B. 34, 2994).
- 21) 3-Nitro-1-Methylbenzol-4-Sulfonsäure?  $NH_4$  (B. 34, 2994).
- 22) 3-Amidobenzol-1-Carbonsäure- $\beta$ -Sulfonsäure (D.R.P. 109 487 C. 1900 [2] 408). — \*II, 807.
- $C_7H_7O_6NS$  7) 3-Amido-2-Oxybenzol-1-Carbonsäure- $\beta$ -Sulfonsäure (C. 1901 [2] 716).
- 8) 5-Amido-2-Oxybenzol-1-Carbonsäure- $\beta$ -Sulfonsäure (C. 1901 [2] 716).
- 9) 4-Nitro-3-Oxy-1-Methylbenzol-6-Sulfonsäure (D.R.P. 129 283 C. 1902 [1] 690).
- $C_7H_7O_5NS_2$  3) 3-Amidobenzol-1-Carbonsäure- $\beta$ -Disulfonsäure (D.R.P. 109 487 C. 1900 [2] 408). — \*II, 807.
- $C_7H_5ONBr$  10) 3-Brom-6-Oxy-2,5-Dimethylpyridin. Sm. 218—219° (B. 34, 3698 C. 1902 [1] 47).
- $C_7H_5ON_3Cl$  4)  $\alpha$ -Nitroso- $\alpha$ -(2-Chlorbenzyl)hydrazin. Sm. 57° (B. 34, 852).
- $C_7H_5O_2NCl$  1) 4- oder 6-Chlor-6- oder 4-Amido-2,5-Dioxy-1-Methylbenzol. Sm. 160—162° u. Zers. (J. pr. [2] 63, 186). — \*II, 579.
- $C_7H_5ONBr$  1) 4- oder 6-Brom-6- oder 4-Amido-2,5-Dioxy-1-Methylbenzol. Sm. 148—149° (J. pr. [2] 63, 187). — \*II, 579.
- $C_7H_5O_2NJ$  1) Jodmethylat d. Pyridin-3-Carbonsäure (M. 22, 365).
- $C_7H_5O_2N_2S$  2) Acetylhydrazid d. Thiophen-2-Carbonsäure. Sm. 172° (J. pr. [2] 65, 11 C. 1902 [1] 458).
- $C_7H_5O_2N_3S$  1) 8-Thiocarboxyl-2,6-Diketo-1,3-Dimethylpurin +  $H_2O$ . Sm. 320° u. Zers. (D.R.P. 133 300 C. 1902 [2] 314).
- $C_7H_5O_2N_6Fe$  1) Aethylnitritprussidwasserstoff +  $2H_2O$  (Z. a. Ch. 11, 285; 12, 167). — \*I, 797.
- $C_7H_5O_2Cl_2Si$  1) Methylphenyläther d. Dioxysilicumdichlorid. Sd. 216°<sub>755</sub> (Soc. 79, 457).
- $C_7H_5O_3N_2S$  9) Diamid d. Benzol-1-Carbonsäure-2-Sulfonsäure.  $K_2$  (Am. 28, 100 C. 1902 [2] 788).
- $C_7H_5O_3N_3S$  \*8) Amid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 144° (B. 34, 2993).
- $C_7H_5O_3NaS$  1) 3-Nitro-4-Methylphenylarsinsäure. Sm. noch nicht bei 300°. Ba,  $Ag_2$  (A. 320, 321 C. 1902 [1] 922).
- $C_7H_5N_3ClS$  2)  $\alpha$ -Amido- $\beta$ -[4-Chlorphenyl]thioharnstoff. Sm. 180° (B. 35, 1715 C. 1902 [2] 29).
- $C_7H_5O_2NS$  \*7) Amid d. 1-Methylbenzol-2-Sulfonsäure (D.R.P. 133 919 C. 1902 [2] 834).
- \*9) Amid d. 1-Methylbenzol-4-Sulfonsäure. K (Am. 28, 94 C. 1902 [2] 788).
- \*12) Phenylamid d. Methansulfonsäure. Sm. 99° (C. 1902 [1] 854).
- 13) Aethylester d. 2-Thiänylamidoameisensäure. Sm. 48° (J. pr. [2] 65, 16 C. 1902 [1] 459).
- $C_7H_5O_4NS$  \*22) Amid d. 3-Oxybenzylmethyläther-1-Sulfonsäure. K,  $K_2$  (Am. 28, 94 C. 1902 [2] 788).
- \*23) Amid d. 4-Oxybenzylmethyläther-1-Sulfonsäure. K,  $K_2$  (Am. 28, 95 C. 1902 [2] 788).
- 26) 4-Methylphenylsulfonhydroxylamin. Sm. 148° (J. pr. [2] 63, 176).
- 27) 1-Methylamidobenzol-3-Sulfonsäure. Zers. bei 285—290°. Na, Ba (J. pr. [2] 63, 411).
- 28) isom. 1-Methylamidobenzol-3-Sulfonsäure. Zers. bei 244°. Na +  $3H_2O$ , Ba +  $H_2O$  (J. pr. [2] 63, 412).
- $C_7H_5O_4NS$  3) 3-Amido-2-Oxy-1-Methylbenzol-5-Sulfonsäure (D.R.P. 134 163 C. 1902 [2] 919).
- 4) 4-Amido-2-Oxy-1-Methylbenzol- $\beta$ -Sulfonsäure (D.R.P. 74 111). — \*II, 494.
- 5) 3-Amido-4-Oxy-1-Methylbenzol-5-Sulfonsäure (D.R.P. 134 163 C. 1902 [2] 919).
- 6) 3-Amido-4-Oxy-1-Methylbenzol-6-Sulfonsäure (D.R.P. 134 163 C. 1902 [2] 919).
- 7) 2-Amido- $\beta$ -Oxy-1-Methylbenzol- $\beta$ -Sulfonsäure (D.R.P. 79 120). — \*II, 495.



- $C_7H_{10}ONCl$  3)  $\beta$ -Oxychloräthylat d. Pyridin.  $2 + PtCl_4$  (M. 15, 668; Ar. 240, 78 C. 1902 [1] 477).
- 4) Verbindung (aus Chlordimethyläther u. Pyridin).  $2 + PtCl_4 + AuCl_3$  (A. 316, 168).
- $C_7H_{10}ON_2S$  6) 2-Allylimido-4-Keto-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 129° u. Zers. HCl (LANGLET, Privatmitteilung). — \*I, 744.
- $C_7H_{10}O_3N_2S_2$  2) 2,4-Diamido-1-Methylbenzol-2-Thiolsulfonsäure (C. 1901 [1] 1128).
- $C_7H_{10}O_3NP$  3) Monophenylamid d. Phosphorsäuremonomethylester. Ba +  $7H_2O$  (Soc. 81, 1374 C. 1902 [2] 1198).
- $C_7H_{10}O_4N_2S_4$  1) 2,4-Diamido-1-Methylbenzol-2-Di[Thiolsulfonsäure] (C. 1901 [1] 1128).
- $C_7H_{10}NJS$  1) 2-Jodmethylat d. 2-Thiocarbonyl-1-Methyl-1,2-Dihydropyridin. Sm. 156° (B. 35, 3677 C. 1902 [2] 1474).
- $C_7H_{10}NS_3As$  1) 3-Amido-4-Methylphenylthioarsinsäure.  $H_2SO_4$  (A. 320, 324 C. 1902 [1] 923).
- $C_7H_{11}ONS_2$  1) 2-Thiocarbonyl-4-Keto-5,5-Dimethyl-3-Aethyltetrahydrothiazol. Sd. 122–124°<sub>10</sub> (B. 35, 3385 C. 1902 [2] 1364).
- $C_7H_{11}O_2N_2Cl$  1) 5-Keto-3-Methyl-4-[ $\gamma$ -Chlor- $\beta$ -Oxypropyl]-4,5-Dihydropyrazol. Sm. 150,5° (B. 34, 1981).
- $C_7H_{11}O_2N_2P$  1) Amid-4-Methylphenylamid d. Phosphorsäure (p-Toluidinophosphamsäure). Sm. 159° (Soc. 81, 1368 C. 1902 [2] 1197).
- $C_7H_{11}O_3NS_2$  1) Aethylacetat d. Acetylamidodithioameisensäure. Sm. 82° (Am. 27, 297 C. 1902 [1] 1299).
- $C_7H_{13}ONS_2$  2) Diäthyläther d. Acetylimidodimerkaptomethan. Sd. 142°<sub>14</sub> (C. 1901 [2] 275).
- 3) tert. Butylester d. Acetylamidodithioameisensäure. Sm. 112 bis 113° (C. 1902 [2] 577).
- $C_7H_{13}O_2N_3S$  1) Aethylester d.  $\beta$ -Thiosemicarbazonbuttersäure. Sm. 97° (B. 35, 2605 C. 1902 [2] 572).
- $C_7H_{13}O_3NS$  1) 2-Merkapto-5-[ $\alpha\beta\gamma\delta$ -Tetraoxybutyl]-4,5-Dihydrooxazol. Sm. 156° (Ag,  $AgNO_3$ ) (C. r. 134, 1591 C. 1902 [2] 348).
- 2) isom. 2-Merkapto-5-[ $\alpha\beta\gamma\delta$ -Tetraoxybutyl]-4,5-Dihydrooxazol. Sm. 185–186° (C. r. 135, 693 C. 1902 [2] 1356).
- 3) Verbindung (aus Glykamin) (C. r. 134, 293 C. 1902 [1] 565).
- $C_7H_{13}O_6N_3S$  1)  $\epsilon$ -Thiosemicarbazon- $\alpha\beta\gamma\delta$ -Tetraoxybutan- $\alpha$ -Carbonsäure. Ag<sub>2</sub> (B. 35, 2056 C. 1902 [2] 105).
- $C_7H_{14}ONCl$  2) Amylchloramid d. Essigsäure. Fl. (B. 34, 1615 Ann.).
- $C_7H_{14}O_3N_2S$  2) Methylester d.  $\alpha$ -Isobutylthioharnstoff- $\beta$ -Carbonsäure. Sm. 83° (Soc. 79, 910).
- $C_7H_{14}O_4N_2S$  1) 1-Naphtylamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 157° (B. 34, 3003).
- $C_7H_{15}O_3N_3S$  1) Thiosemicarbazon d. d-Galaktose. Sm. 148° (B. 35, 2056 C. 1902 [2] 105).
- 2) Thiosemicarbazon d. d-Glykose. Sm. 204° (B. 35, 2055 C. 1902 [2] 105).
- 3) Thiosemicarbazon d. d-Mannose. Sm. 187° (B. 35, 2055 C. 1902 [2] 105).
- $C_7H_{16}O_2NJ$  1) Jodmethylat d.  $\beta$ -Dimethylamidopropionsäuremethylester. Sm. 191–192° (B. 35, 610 C. 1902 [1] 573).
- $C_7H_{17}O_3ClSi$  1) Methyläthylisobutyläther d. Trioxysiliciumchlorid. Sd. 160° (Soc. 79, 458).
- $C_7H_{18}O_4N_2S_2$  1)  $\beta\beta$ -Di[ $\beta$ -Amidoäthylsulfon]propan (Diamidosulfonal). Sm. 84–86°. 2HCl, (2HCl,  $PtCl_4$ ), (2HCl,  $AuCl_3$ ) (B. 35, 1373 C. 1902 [1] 1089).

- $C_7H_5O_3NClS$  \*1) s-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure (Am. 25, 4).
- $C_7H_5O_2N_2ClBr_2$  1) 3,5-Dibrom-2-Chlornitramido-1-Methylbenzol. Sm. 60° (Soc. 81, 968 C. 1902 [2] 355, 698).
- 2) 3,5-Dibrom-4-Chlornitramido-1-Methylbenzol. Sm. 50–51° (Soc. 81, 968 C. 1902 [2] 355, 698).

$C_7H_5O_2N_2ClS$	1) 4-Chlor-3, 5-Dinitrophenylmethan- $\alpha$ -Sulfonsäure (D.R.P. 134988 C. 1902 [2] 1372).
$C_7H_5O_2NClS$	1) Methyläther d. 4-Chlor-2-Nitro-1-Merkaptobenzol. Sm. 128° (R. 20, 404 C. 1902 [1] 417).
$C_7H_5O_2NBrS$	1) Methyläther d. 4-Brom-2-Nitro-1-Merkaptobenzol. Sm. 126° (R. 20, 405 C. 1902 [1] 417).
$C_7H_5O_2NBr_2As$	1) 3-Nitro-4-Methylphenyldibromarsin. Zers. bei 260° (A. 320, 316 C. 1902 [1] 921).
$C_7H_5O_2NSAs$	1) 3-Nitro-4-Methylphenylarsensulfid. Sm. 141—142° (A. 320, 317 C. 1902 [1] 921).
$C_7H_5O_4NCIS$	*3) Chlorid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 36° (B. 34, 2993).
$C_7H_7O_2NCl_2S$	*2) Amid d. 2,3-Dichlor-1-Methylbenzol- $\rho$ -Sulfonsäure. Sm. 222° (Soc. 79, 1129). *3) Amid d. 2,4-Dichlor-1-Methylbenzol-5-Sulfonsäure. Sm. 176° (Soc. 79, 1129). *4) Amid d. 2,5-Dichlor-1-Methylbenzol-4-Sulfonsäure. Sm. 191—192° (Soc. 79, 1131). *5) Amid d. 2,6-Dichlor-1-Methylbenzol- $\rho$ -Sulfonsäure. Sm. 204° (Soc. 79, 1132). *6) Amid d. 3,4-Dichlor-1-Methylbenzol- $\rho$ -Sulfonsäure. Sm. 190—191° (Soc. 79, 1133). *7) Amid d. 3,5-Dichlor-1-Methylbenzol-4-Sulfonsäure. Sm. 168—169° (Soc. 79, 1134).
$C_7H_5ONCl_2P$	*2) 4-Methylphenylamid d. Phosphorsäuredichlorid. Sm. 110 bis 111° (106°) (C. 1901 [1] 688; Soc. 81, 1367 C. 1902 [2] 1197).
$C_7H_5O_2NClP$	1) Phenylamid d. Methylphosphorsäurechlorid. Sm. 82—83° (Soc. 81, 1373 C. 1902 [2] 1198).
$C_7H_5O_2N_2ClS$	1) 4-Chlor-3, 5-Diamidophenylmethan- $\alpha$ -Sulfonsäure (D.R.P. 134988 C. 1902 [2] 1372).

C<sub>8</sub>-Gruppe.

$C_8H_6$	*1) Phenyläthin. Na (Bl. [3] 25, 309).
$C_8H_{10}$	*5) Dimethylfulven (B. 34, 2933).
$C_8H_{12}$	*2) 3,5-Dimethyl-1,2-Dihydrobenzol. Sd. 133—134° (A. 323, 140 C. 1902 [2] 842). 8) 1,1-Dimethyl-1,2-Dihydrobenzol. Sd. 111° (Soc. 81, 832 C. 1902 [1] 196 C. 1902 [2] 449). 9) 1,3-Dimethyl-1,2-Dihydrobenzol. Sd. 126—128° <sub>750</sub> (B. 35, 1175 C. 1902 [1] 1009). 10) 1,2,4,5-Tetrahydro-R-Okten. (Cyklooktadien). Sd. 50—52° <sub>17</sub> (B. 35, 2134 C. 1902 [2] 186).
$C_8H_{13}$	1) Kohlenwasserstoff (aus Isolaurolen). Sd. 259—260° (A. 319, 315).
$C_8H_{14}$	*12) Isolaurolen. Sd. 108—108,2° <sub>730</sub> (A. 319, 307 C. 1902 [1] 33). *14) Laurolen. Sd. 122—123° (A. 319, 311 C. 1902 [1] 33). 18) r-Laurolen. Sd. 120—121° <sub>752</sub> (A. 319, 313 C. 1902 [1] 33). 19) 1,3-Dimethyl- $\rho$ -Tetrahydrobenzol. Sd. 126—127° <sub>750</sub> (B. 34, 3255). 20) $\beta$ -Oktonaphylen. Sd. 122—123° (J. r. 27, 304). — *II, 9. 21) Kohlenwasserstoff (aus d. Base C <sub>10</sub> H <sub>21</sub> N). Sd. 107—110° (A. 319, 87).
$C_8H_{16}$	*1) $\alpha$ -Okten (C. r. 134, 1129 C. 1902 [2] 17). *8) Äthylhexahydrobenzol. Sd. 128—129° (130°) (C. 1901 [1] 818; 1901 [2] 201; C. r. 135, 88 C. 1902 [2] 503). *9) i-1,3-Dimethylhexahydrobenzol. Sd. 119° <sub>760</sub> (121°) (Soc. 79, 349; Am. 25, 258, 302; C. 1901 [1] 818; 1901 [2] 201). *10) 1,4-Dimethylhexahydrobenzol. Sd. 120° (C. 1901 [2] 201). 29) $\gamma$ -Äthyl- $\beta$ -Hexen. Sd. 119—120° (C. 1901 [1] 726). 30) 1,1-Dimethylhexahydrobenzol. (Dihydrolaurolen; Dihydroisolaurolen). Sd. 114° (A. 319, 314 C. 1902 [1] 33). 31) 1,2-Dimethylhexahydrobenzol. Sd. 125° (126°) (C. 1901 [1] 818; 1901 [2] 201). 32) d-1,3-Dimethylhexahydrobenzol. Sd. 119,5—120° <sub>789</sub> (B. 35, 2680 C. 1902 [2] 589).

- $C_8H_{16}$  33) act. 1-Methyl-3-Aethyl-R-Pentamethylen. Sd. 120,5—121°<sub>756</sub> (B. 35, 2679 C. 1902 [2] 589).
- $C_8H_{18}$  \*1) Oktan. Sd. 125° (J. pr. [2] 64, 127).  
6)  $\gamma\delta$ -Dimethylhexan. Sd. 116—116,2°<sub>750</sub> (Am. 26, 313).
- 8 II —
- $C_8H_6O_3$  \*1) Anhydrid d. Benzol-1,2-Dicarbonsäure (Ph. Ch. 41, 353 C. 1902 [2] 627).
- $C_8H_4O_4$  5) 1,2-Phenyleneester d. Oxalsäure. Sm. 185° (B. 35, 3452 C. 1902 [2] 1304).  
6) polym. 1,3-Phenyleneester d. Oxalsäure. Sm. 260° (B. 35, 3453 C. 1902 [2] 1304).  
7) polym. 1,4-Phenyleneester d. Oxalsäure. Sm. oberh. 280° (B. 35, 3455 C. 1902 [2] 1304).
- $C_8H_6N_2$  \*3) Nitril d. Benzol-1,4-Dicarbonsäure. Sm. 222—223° (M. 22, 1077).  
4) 1,2-Phenylendicarbylamin. Zers. bei 130—140° (B. 34, 1578).  
5) 1,3-Diisocyanbenzol (m-Phenylendicarbylamin). Zers. bei 80° (M. 22, 1079 C. 1902 [1] 464).  
6) 1,4-Diisocyanbenzol. Zers. bei 140° (Sm. 90—95° u. Zers.) (B. 34, 1579; M. 22, 1075 C. 1902 [1] 463).  
C 83,5 — H 4,3 — N 12,2 — M. G. 115.
- $C_8H_8N$  1) Phenylidicarbylamin. Fl. (C. 1901 [2] 28, 121).
- $C_8H_6O$  \*1) Cumaron.  $HgSO_4 + 2HgO, 2HgSO_4 + 2HgO + H_2O$  (C. 1901 [2] 1348; B. 35, 1630 C. 1902 [1] 1358).
- $C_8H_6O_4$  \*2) Benzol-1,2-Dicarbonsäure. Zers. bei 196—198°. Antimonpentachlorid-Verbindung (B. 34, 995; B. 35, 1121 C. 1902 [1] 924).  
\*5) 2-Oxybenzol-1-Ketocarbonsäure. Sm. 39,5° (B. 34, 2295; B. 35, 1645 C. 1902 [1] 1361).
- \*15) Anhydroglykopyrogallol (B. 34, 99).
- $C_8H_6O_5$  \*2) 4-Oxybenzol-1,2-Dicarbonsäure. Sm. 181°. K (M. 23, 324 C. 1902 [2] 201; M. 23, 357 C. 1902 [2] 202; M. 23, 402 C. 1902 [2] 204).  
\*4) 4-Oxybenzol-1,3-Dicarbonsäure (C. 1901 [1] 822).  
\*6) 2-Oxybenzol-1,4-Dicarbonsäure (M. 23, 333 C. 1902 [2] 201).
- 12) Benzol-1-Carbonsäure-2-Percarbonsäure (Phtalmonopersäure). Sm. 110° u. Zers. (B. 34, 764).
- $C_8H_6O_6$  \*2) 4,5-Dioxybenzol-1,2-Dicarbonsäure +  $H_2O$ . Sm. 175° (B. 34, 2743).  
\*6)  $\alpha$ -Resorcindicarbonsäure. Sm. 304—305° (G. 31 [1] 166).  
9) Benzol-1,4-Dipercarbonsäure (Terephtaldipersäure). Na (B. 34, 766).
- $C_8H_8N_2$  \*5) Verbindung (aus d. Verbindung  $C_8H_8ON_2$ ) (Soc. 81, 110 C. 1902 [1] 427).
- $C_8H_8S$  \*1) Thionaphten (C. 1902 [2] 804).
- $C_8H_7N$  \*2) Indol (C. 1902 [1] 663).  
\*4) Nitril d. 1-Methylbenzol-2-Carbonsäure. Sm. —14 bis —13°; Sd. 90°<sub>15</sub> (R. 20, 169).  
\*5) Nitril d. 1-Methylbenzol-3-Carbonsäure. Sm. —23,5 bis —23°; Sd. 209—210°<sub>773</sub> (R. 20, 160).  
\*6) Nitril d. 1-Methylbenzol-4-Carbonsäure. Sm. 29,5°; Sd. 90,5—91°<sub>11</sub> (R. 20, 155).
- $C_8H_7N_3$  \*2) 1-Phenyl-1,2,3-Triazol. Sm. 56° (B. 35, 1035 C. 1902 [1] 879).  
8) 5-Phenyl-1,2,4-Triazol. Sm. 118,5—119°. (2HCl, PtCl<sub>4</sub>) (Soc. 79, 665).  
9) 1-Phenyl-1,3,4-Triazol. Sm. 121°. (2HCl, PtCl<sub>4</sub>), 2 + PtCl<sub>4</sub>, Pikrat (G. 31 [2] 108).
- 10) Nitril d. Phenylhydrazonessigsäure. Sm. 162° (G. 31 [1] 581).
- $C_8H_8O$  \*3) Methylphenylketon. +  $AlCl_3, 2 + Al_2Br_3 + CH_3JMg + (C_2H_5)_2O$  (R. 20, 104; Am. 27, 250 C. 1902 [1] 1291; B. 35, 2636 C. 1902 [2] 585; B. 35, 3506 C. 1902 [2] 1319).  
\*4) 1,2-Dihydrobenzofuran. Sd. 189—190° (B. 34, 1810).  
\*7) Aldehyd d. 1-Methylbenzol-2-Carbonsäure (C. r. 133, 635).  
\*9) Aldehyd d. 1-Methylbenzol-4-Carbonsäure (C. 1901 [1] 1226).
- $C_8H_8O_2$  \*16) 1-Methylbenzol-4-Carbonsäure. Hydrazinsalz (B. 35, 3241 C. 1902 [2] 1045).  
\*17) Phenylessigsäure. Sm. 78°. +  $SbCl_5$  (B. 34, 1966; B. 35, 1117 C. 1902 [1] 924; B. 35, 2522 C. 1902 [2] 435; B. 35, 2694 C. 1902 [2] 581).

- $C_8H_8O_2$  18) *2<sup>4</sup>-Norcaradien-7-Carbonsäure* (Pseudophenylelessigsäure). Sm. unterh. 0°. Na, Ag (*B.* 34, 992).
- \* 22) *R-Hepten-1-Carbonsäure*. Sm. 32°; Sd. 163,5°<sub>21</sub> (*A.* 317, 235).
- \* 31) *Aldehyd d. 2-Oxybenzolzomethyläther-1-Carbonsäure*. Sm. 39—40°; Sd. 236—238° (*Soc.* 79, 669).
- $C_8H_8O_3$  \* 4) *Methyl-2,4-Dioxyphenylketon*. Sm. 142—142,5° (*B.* 34, 1201).
- \* 10) *i-α-Oxyphenylelessigsäure*. Antimonpentachlorid-Derivat (*B.* 35, 1123 *C.* 1902 [1] 924).
- \* 13) *2-Oxyphenylelessigsäure*. Sm. 144—145° (*B.* 35, 1637 *C.* 1902 [1] 1360).
- \* 31) *4-Oxybenzolzomethyläther-1-Carbonsäure*. Sm. 178,5° (*C.* 1902 [1] 1213).
- \* 38) *Aldehyd d. 3,5-Dioxy-1-Methylbenzol-2-Carbonsäure*. Sm. 181 bis 182° (*B.* 34, 1445).
- \* 43) *Vanillin* (*Bl.* [3] 25, 49; *C. r.* 133, 823 *C.* 1902 [1] 21).
- \* 46) *Methylester d. 2-Oxybenzol-1-Carbonsäure*. +  $SbCl_5$  (*B.* 35, 1126 *C.* 1902 [1] 925; *A.* 322, 21 *C.* 1902 [2] 782).
- \* 52) *Methylester d. 3-Oxybenzol-1-Carbonsäure*. Sm. 71,5° (57°); Sd. 280—280,5°<sub>709</sub> (*Am.* 25, 155; *M.* 22, 430; *B.* 35, 3026 *C.* 1902 [2] 1114).
- \* 53) *Monoacetat d. 1,3-Dioxybenzol*. Fl. (*C.* 1901 [2] 250).
- 54) *Aldehyd d. 4-Oxy-1-Oxymethylbenzol-3-Carbonsäure*. Sm. 110° (108°) (*B.* 34, 2457; *C.* 1902 [2] 894; *B.* 35, 126 *C.* 1902 [1] 465).
- $C_8H_8O_4$  \* 1) *Methyl-2,3,4-Trioxypheylketon*. Sm. 168° (*B.* 34, 1208).
- \* 2) *Dimethyläther d. 2,5-Dioxy-1,4-Benzochinon*. Zers. bei 220° (*B.* 23, 1216; *B.* 34, 3996 *C.* 1902 [1] 188).
- \* 4) *Homogentisinsäure* (*C.* 1902 [1] 364).
- \* 7) *α-Oxy-α-[2-Oxyphenyl]essigsäure* (Salicylglykolsäure). Sm. 132°. Na (*C.* 1901 [2] 1220; 1902 [2] 215).
- \* 17) *4-Oxy-1-Oxymethylbenzol-3-Carbonsäure*. Sm. 140° (*C.* 1902 [2] 894).
- \* 37) *Dehydracetsäure*. Sm. 108° (*A.* 318, 100; *A.* 323, 248 *C.* 1902 [2] 786).
- \* 42) *Monoacetat d. 1,2,3-Trioxypbenzol*. Sd. 185°<sub>35</sub> (*C.* 1901 [2] 250).
- \* 44) *5-Methyläther d. 3,5-Dioxy-2-Methyl-1,4-Benzochinon*. Sm. 183 bis 185° (*M.* 22, 1008 *C.* 1902 [1] 187).
- 47) *Methyl-2,4,6-Trioxypheylketon*. Sm. noch nicht bei 280° (*B.* 34, 1798).
- 48) *Säure* (aus *Coriaria angustissima*). Sm. 130° (*Soc.* 79, 123).
- 49) *Aldehyd d. 2-Acetoxylmethylfuran-5-Carbonsäure*. Sm. 55° (*Soc.* 79, 810).
- 50) *Methylester d. 3,5-Dioxybenzol-1-Carbonsäure*. Sm. 60° (*M.* 22, 431).
- 51) *Aethylester d. 1,2-Pyron-6-Carbonsäure*. Sm. 59—60° (*Soc.* 79, 1281).
- $C_8H_8O_5$  \* 8) *βγ-Anhydrid d. β-Penten-βγγ-Tricarbonsäure* (Anhydrid d. dreibas. Hämatinsäure). Sm. 96—97°. Salze siehe (*A.* 315, 194; *J. pr.* [2] 65, 164 *C.* 1902 [1] 1017; *B.* 35, 2948 *C.* 1902 [2] 1051).
- \* 10) *Methylester d. 3,4,5-Trioxypbenzol-1-Carbonsäure* + 2 $H_2O$ . Sm. 195° (198—199°) wasserfrei (*M.* 22, 432; *G.* 31 [2] 350 *C.* 1902 [1] 38; *G.* 32 [1] 562 *C.* 1902 [2] 639).
- \* 11) *Dimethylester d. Furan-2,5-Dicarbonsäure*. Sm. 112°; Sd. 154 bis 156°<sub>15</sub> (*B.* 34, 3453).
- \* 14) *3-Methylfuran-4-Carbonsäure-5-Methylcarbonsäure*. Sm. 196,5°. Ba, Ag<sub>2</sub> (*B.* 35, 1549 *C.* 1902 [1] 1226).
- \* 16) *Methylester d. 2,4,6-Trioxypbenzol-1-Carbonsäure*. Sm. 174—176° (170—172°) (*M.* 22, 220; *M.* 23, 86 *C.* 1902 [1] 1098).
- 17) *2,4,6-Trioxypbenzolmonomethyläther-1-Carbonsäure*. Zers. bei 141° (*M.* 22, 228).
- 18) *3,4,5-Trioxypbenzol-4-Methyläther-1-Carbonsäure*. Sm. 240—242° (*M.* 23, 702 *C.* 1902 [2] 1107).
- 19) *Dimethylester d. Furan-2,4-Dicarbonsäure*. Sm. 109—110° (*B.* 34, 1995).
- 20) *Monoäthylester d. Furan-2,5-Dicarbonsäure*. Sm. 148—149° (*Am.* 25, 453).
- $C_8H_8O_6$  \* 5) *Aethylester d. Oxykomensäure*. Sm. 207,5° (*Soc.* 81, 1007 *C.* 1902 [2] 371).

- $C_8H_8O$ , \*3) Anhydrid d.  $\alpha\beta$ -Diacetoxyläthan- $\alpha\beta$ -Dicarbonsäure. Sm. 135° (B. 34, 1144).
- $C_8H_8N_2$ , \*6) 2-Methylbenzimidazol. Sm. 174—175° (G. 31 [1] 31).
- \*11) Apoharmin (C. 1901 [1] 958).
- \*12) Nitril d. Phenylamidoessigsäure (D.R.P. 132621 C. 1902 [2] 315).
- \*21) Nitril d. 2-Methylphenylamidoameisensäure. Sm. 77° (J. pr. [2] 65, 371 C. 1902 [1] 1328).
- \*23) Nitril d. Methylphenylamidoameisensäure. Sm. 28°; Sd. 134°<sub>12</sub> (B. 35, 1284 C. 1902 [1] 1094).
- 24) Nitril d. 3-Methylphenylameisensäure (J. pr. [2] 65, 377 C. 1902 [1] 1329).
- 25) Nitril d. 4-Methylphenylamidoameisensäure. Sm. 69°. Ag, (2HCl, PtCl<sub>4</sub>), (J. pr. [2] 65, 372 C. 1902 [1] 1329).
- 26) Nitril d. 4-Amido-1-Methylbenzol-3-Carbonsäure. Sm. 60—61° (B. 34, 3375).
- 27) Nitril d. 1-Amidomethylbenzol-3-Carbonsäure. Fl. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat, Oxalat (B. 34, 3367, 3368 Anm.).
- $C_8H_8N_4$ , 9) 5-Imido-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 157°. (2HCl, PtCl<sub>4</sub>), Pikrat (G. 31 [1] 524).
- $C_8H_8Cl_2$ , \*9) 4,5-Dichlor-1,2-Dimethylbenzol (C. r. 133, 170).
- 15) 3,4-Dichlor-1,2-Dimethylbenzol. Sm. 68,5—72° (C. r. 133, 170).
- 16) 3,6-Dichlor-1,2-Dimethylbenzol (C. r. 133, 170).
- $C_8H_8S_2$ , 1) Disulfid d. 1,3-Di[Merkaptomethyl]benzol. Sm. 115—116° (J. pr. [2] 64, 526 C. 1902 [1] 259).
- 2) Disulfid d. 1,4-Di[Merkaptomethyl]benzol. Sm. 168—169° (J. pr. [2] 64, 526 C. 1902 [1] 259).
- 3) Phenylthioessigsäure. Fl. (B. 35, 3696 C. 1902 [2] 1459).
- $C_8H_8N$ , \*1) Aethylidenamidobenzol. H<sub>2</sub>SO<sub>4</sub>, + NaHSO<sub>3</sub> (A. 318, 121).
- 13) 4-Amido-1-Aethenylbenzol (p-Amidostyrol). HCl, (2HCl, PtCl<sub>4</sub>) (B. 26 [2] 677). — II, 584; \*II, 327.
- 14) isom. Anhydroformaldehyd-o-Toluidin. Sm. 100—110° (C. 1901 [2] 73).
- $C_8H_9N_3$ , 10) 4-Methylbenzylazimid (B. 35, 3229 C. 1902 [2] 1043).
- $C_8H_9N_5$ , \*2) 3,5-Diimido-1-Phenyltetrahydro-1,2,4-Triazol. (2HCl, PtCl<sub>4</sub>) (G. 31 [1] 477, 484).
- $C_8H_9J$ , \*4) 4-Jod-1,2-Dimethylbenzol. Sd. 225° (C. 1901 [2] 750).
- 7)  $\alpha$ -Jodäthylbenzol. Fl. (B. 35, 2639 C. 1902 [2] 585).
- 8) 4-Jod-1-Aethylbenzol. Sd. 112°<sub>20</sub> (J. pr. [2] 65, 568 C. 1902 [2] 351).
- $C_8H_9F$ , 1) 4-Fluor-1,3-Dimethylbenzol. Sd. 143° (B. 25, 1525; J. pr. [2] 61, 328). — \*II, 24.
- $C_8H_{10}O$ , \*1)  $\alpha$ -Oxyäthylbenzol (B. 34, 1959; C. 1901 [2] 623).
- \*2)  $\beta$ -Oxyäthylbenzol (B. 34, 2803).
- \*3) 2-Oxy-1-Aethylbenzol. Sd. 195—197° (B. 34, 52; B. 35, 1631 C. 1902 [1] 1358).
- \*5) 4-Oxy-1-Aethylbenzol (A. 322, 187 Anm. C. 1902 [2] 265).
- \*21) Aethyläther d. Oxybenzol (C. 1901 [2] 259).
- $C_8H_{10}O_2$ , \*18) 2,5-Dioxy-1,3-Dimethylbenzol. Sm. 150° (A. 316, 302).
- \*22) 2,5-Dioxy-1,4-Dimethylbenzol. Sm. 212° (B. 35, 3298 C. 1902 [2] 1247).
- \*31) 3-Methyläther d. 3,5-Dioxy-1-Methylbenzol. Sd. 256—260°<sub>732</sub> (M. 22, 240).
- 50) 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol. Sd. 177—178°<sub>15</sub> (B. 34, 1809).
- 51) 2,3-Dioxy-1-Aethylbenzol. Fl. (M. 23, 188 C. 1902 [1] 1331).
- 52) 6-Oxy-3-Oxymethyl-1-Methylbenzol. Sm. 87° (D.R.P. 85588). — \*II, 684.
- 53)  $\beta\delta$ -Heptadien- $\epsilon$ -Carbonsäure. Sm. 75—77°. Cu, Ag (B. 35, 3639 C. 1902 [2] 1409).
- 54) Verbindung (aus Formaldehyd u. Acetonylaceton). Sm. 32°; Sd. 200 bis 201°<sub>745</sub> (B. 34, 3489).
- \*2) 2,4,6-Trioxy-1,3-Dimethylbenzol. Sm. 163° (A. 318, 286).
- \*4) 2-Methyläther d. 2,4,6-Trioxy-1-Methylbenzol + H<sub>2</sub>O. Sm. 89—90° (117—118° wasserfrei) (A. 318, 251; M. 23, 112 C. 1902 (1) 1100).
- \*29) Filicinsäure (A. 318, 230, 283).
- 34) Ketodimethyleyklopentancarbonsäure. Sm. 180°. Ag (Soc. 79, 780).



- $C_8H_{10}O_4$  \*21) Dimethylester d.  $\alpha\gamma$ -Butadien- $\alpha\delta$ -Dicarbonsäure. Sm. 158° (B. 35, 1148 C. 1902 [1] 985).
- 30) isom. Dimethyläther d. 1,2,3,4-Tetraoxybenzol. Sd. 283° (B. 29, 1807). — \*II, 628.
- 31) Dimethylfulvendiperoxyd. Zers. bei 130° (B. 34, 2935).
- 32) 1,2,3,4-Tetrahydrobenzol-1,5-Dicarbonsäure. Sm. 244° (C. 1901 [1] 823).
- 33) Isoprensäure. Sm. 115° (C. 1902 [1] 42).
- 34) Anhydrid d. 2-Oxy-1,1-Dimethyl-R-Trimethylenmethyläther-2,3-Dicarbonsäure. Sd. 169°<sub>33</sub> (Soc. 79, 761).
- 35)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxy- $\gamma$ -Methyl- $\alpha$ -Penten- $\alpha\beta$ -Dicarbonsäure. Sm. 117—119°. Ba, Ag<sub>2</sub> (A. 321, 120 C. 1902 [1] 981).
- 36)  $\beta\delta$ -Lakton d.  $\delta$ -Oxy- $\gamma$ -Methyl- $\beta$ -Penten- $\alpha\beta$ -Dicarbonsäure? Sm. 144 bis 145° (A. 321, 114 C. 1902 [1] 980).
- 37) Dilakton d.  $\gamma\delta$ -Dioxy- $\gamma$ -Methylpentan- $\alpha\beta$ -Dicarbonsäure. Sm. 147 bis 148° (A. 321, 112 C. 1902 [1] 980).
- $C_8H_{10}O_5$  \*6)  $\beta\gamma$ -Anhydrid d. Pentan- $\beta\gamma\delta$ -Tricarbonsäure ( $\beta\gamma$ -A. d.  $\alpha\alpha'$ -Dimethyltricarballylsäure).  $\alpha$ -Mod. Sm. 110—112°;  $\beta$ -Mod. Sm. 130°;  $\gamma$ -Mod. Sm. 116—117° (Soc. 81, 42 C. 1902 [1] 111, 410).
- \*9)  $\beta\gamma$ -Anhydrid d.  $\beta$ -Methylbutan- $\beta\gamma\delta$ -Tricarbonsäure ( $\beta\gamma$ -A. d.  $\alpha\alpha$ -Dimethyltricarballylsäure). Sm. 135—136° (Soc. 81, 44 C. 1902 [1] 111).
- \*14) Dimethylester d.  $\delta$ -Oxy- $\alpha\gamma$ -Butadien- $\alpha\gamma$ -Dicarbonsäure. Sm. 88 bis 89° (A. 316, 39).
- 18) Säure (aus  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure). Sm. 142° u. Zers. Ba (R. 21, 243 C. 1902 [2] 506).
- 19) Anhydrid d. Pentan- $\alpha\beta\gamma$ -Tricarbonsäure (Soc. 79, 1349 C. 1902 [1] 51).
- 20)  $\beta\gamma$ -Lakton d.  $\gamma$ -Oxypentan- $\gamma$ -Carbonsäure- $\beta$ -Ketocarbonsäure. Sm. 128° (B. 35, 1630 C. 1902 [1] 1274).
- $C_8H_{10}O_6$  \*8) dreibas. Hämatinsäure. (NH<sub>3</sub>)<sub>2</sub>, Ba, Sr, Fe, Ag<sub>2</sub> +  $\frac{1}{2}$  H<sub>2</sub>O (A. 315, 200; J. pr. [2] 65, 164 C. 1902 [1] 1017).
- $C_8H_{10}O_8$  \*8)  $\alpha\beta$ -Diacetoxyläthan- $\alpha\beta$ -Dicarbonsäure. Pyridinsalz (B. 34, 1144).
- $C_8H_{10}N_2$  \*5)  $\alpha$ -Aethyliden- $\beta$ -Phenylhydrazin. Sm. 75—80° (B. 35, 3043 C. 1902 [2] 1108).
- \*12) Dihydroapoharmin (C. 1901 [1] 958).
- 16) 4-Methylbenzylidenhydrazin. Sm. 56°; Sd. 148°<sub>12</sub>. Pikrat (B. 35, 3238 C. 1902 [2] 1045).
- $C_8H_{10}N_4$  \*5) Verbindung (aus Diacetonitril) (Soc. 81, 112 C. 1902 [2] 427).
- 9) 7-Amido-1,5-Dimethyl-1,2,3-Benzotriazol. Sm. 133,5°. HCl + H<sub>2</sub>O (J. pr. [2] 63, 362).
- $C_8H_{10}Cl_2$  1) 3,5-Dichlor-1,1-Dimethyl-1,2-Dihydrobenzol. Sd. 91°<sub>23</sub> (Soc. 81, 826 C. 1902 [1] 195 C. 1902 [2] 449).
- $C_8H_{10}S$  \*2) 1-Methyl-3-Merkaptomethylbenzol. Sd. 215—217° (Am. 26, 205).
- $C_8H_{10}S_2$  \*4) 1,3-Di[Merkaptomethyl]benzol. Pb (B. 34, 1773).
- $C_8H_{10}S_3$  \*3) 1) Trithiodibutolakton. Sm. 116° (B. 34, 3395).
- $C_8H_{11}N$  \*1) Aethylamidobenzol. Sd. 80—95°<sub>14</sub> (A. 318, 140; C. 1902 [1] 268; B. 35, 712 C. 1902 [1] 717).
- \*2) i- $\alpha$ -Amidoäthylbenzol. H<sub>2</sub>SO<sub>4</sub> (B. 35, 1515 C. 1902 [1] 1207).
- \*3)  $\beta$ -Amidoäthylbenzol. Sd. 196°<sub>747</sub>. HCl, HBr, 2 + CdJ<sub>2</sub>, 2 + HgCl<sub>2</sub> (J. pr. [2] 64, 308).
- \*4) 2-Amido-1-Aethylbenzol. Sd. 216—218° (J. pr. [2] 66, 168 C. 1902 [2] 937).
- \*7) Dimethylanilin. (HCl, BiCl<sub>3</sub>) (C. 1902 [1] 3; B. 35, 666 C. 1902 [1] 727).
- \*13) 4-Amidomethyl-1-Methylbenzol (B. 35, 3232 C. 1902 [2] 1043).
- \*15) 4-Amido-1,2-Dimethylbenzol. Sm. 48—49° (B. 34, 1779).
- \*17) 2-Amido-1,3-Dimethylbenzol (A. 316, 303).
- \*18) 4-Amido-1,3-Dimethylbenzol. Sd. 212—215°. (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, Oxalat, Pikrat (A. 319, 97; B. 34, 1780; C. 1902 [1] 3).
- \*20) 2-Amido-1,4-Dimethylbenzol (B. 34, 1780).
- \*24) 2-Isopropylpyridin. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 35, 1347 C. 1902 [1] 1110).
- \*29) 4-Methyl-3-Aethylpyridin. Pikrat (B. 35, 1350 C. 1902 [1] 1110).
- \*31) 2,4,6-Trimethylpyridin. Sd. 170,5°<sub>763</sub>. (HCl, 2HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>) (Soc. 81, 455 C. 1902 [1] 761, 1014).



- $C_8H_{11}N$  44) Nitril d. 1-Methyl-R-Pentamethylen-3-Methylen-carbonsäure. Sd. 208—210° (C. 1902 [1] 1223).
- $C_8H_{11}N_3$  \*1)  $\alpha$ -Imido- $\alpha$ - $\beta$ -Phenylhydrazido]äthan. Fl. HCl, Oxalat (B. 32, 2488; 33, 2796; B. 35, 3272 C. 1902 [2] 1251).
- $C_8H_{12}O$  6)  $\beta$ -Amidomethylen- $\alpha$ -Methyl- $\alpha$ -Phenylhydrazin. Sm. 101° (B. 34, 593).
- \*7) 3-Keto-2,6-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 194° (Bl. [3] 25, 243).
- 10) Methyläther d. 1-Oxy-2,3-Dihydro-R-Hepten. Sd. 166° (A. 317, 280 Anm.).
- 11)  $\zeta$ -Keto- $\beta\delta$ -Oktadien (Sorbinsäureäthylketon). Sd. 90—95°<sub>20</sub> (B. 34, 2222).
- 12) Aldehyd d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 185—187° C. r. 133, 105).
- $C_8H_{12}O_2$  \*2) 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 147 bis 148°; HCl (B. 34, 1956; Soc. 81, 828 C. 1902 [2] 449).
- \*12) 2,3,4,5-Tetrahydro-R-Hepten-1-Carbonsäure (B. 34, 134; A. 317, 236, 240).
- \*22) Aethylester d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure (B. 34, 2221).
- 31)  $\epsilon\eta$ -Diketo- $\alpha$ -Okten. Sd. 87—89°<sub>16</sub> (Bl. [3] 27, 65 C. 1902 [1] 566).
- 32) 3-Keto-4-Oxymethylen-1-Methylhexahydrobenzol (Oxymethylen-methylcyclohexanon) (C. 1901 [1] 1025).
- 33)  $\alpha$ -Heptin- $\alpha$ -Carbonsäure (Amylpropolsäure). Sm. 5°; Sd. 149°<sub>20</sub>. Ba + H<sub>2</sub>O (C. 1901 [1] 1149, 1316; D.R.P. 132802 C. 1902 [2] 169).
- 34)  $\gamma$ -Methyl- $\alpha\gamma$ -Hexadien- $\alpha$ -Carbonsäure ( $\gamma\epsilon$ -Dimethylsorbinsäure). Sd. 165°<sub>20</sub> u. ger. Zers. Mg, AlOH, Cu (B. 35, 1145 C. 1902 [1] 984).
- 35) 5-Methyl-1,2,3,4-Tetrahydrobenzol-2-Carbonsäure. Sm. 98—99° (B. 35, 2154 C. 1902 [2] 279).
- 36) 1-Methyl-R-Pentamethylen-3-Methylen-carbonsäure. Sd. 240° u. Zers. Ag (C. 1902 [1] 1222).
- 37) Mankopalsäure. Sm. 175°. K, Ag (Ar. 240, 209 C. 1902 [1] 1223).
- 38) Lakton d.  $\gamma$ - oder  $\delta$ -Oxy- $\gamma$ -Methyl- $\alpha$ -Hexen- $\alpha$ -Carbonsäure. Sd. 145—150°<sub>30</sub> (B. 35, 1146 C. 1902 [1] 984).
- 39) Lakton d. 3-Oxy-R-Heptamethylen-1-Carbonsäure. Sm. 103—104° (B. 34, 134; A. 317, 242).
- 40) Lakton d. 1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 68—69° (B. 35, 2154 C. 1902 [2] 279).
- 41) R-Trimethylen-carbonat d. 1-Oxymethyl-R-Trimethylen. Sd. 191°<sub>761</sub> (C. 1902 [1] 914).
- $C_8H_{12}O_3$  \*19) Aethylester d. 2-Keto-R-Pentamethylen-1-Carbonsäure. Sd. 218°<sub>704</sub>. Cu + C<sub>2</sub>H<sub>5</sub>O (A. 317, 51).
- \*23) 4-Keto-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 103° (Soc. 79, 782).
- 29)  $\beta\epsilon$ -Diketo- $\gamma$ -Acetylhexan (Acetonylacetylacetone). Sd. 156°<sub>35</sub> (C. 1902 [2] 346).
- $C_8H_{12}O_4$  \*12)  $\beta$ -Methyl- $\beta$ -Penten- $\epsilon\epsilon$ -Dicarbonsäure. Sm. 83° (C. 1902 [1] 630).
- \*13)  $\gamma$ -Methyl- $\beta$ -Penten- $\delta\epsilon$ -Dicarbonsäure. Sm. 141—142°. K + H<sub>2</sub>O, K<sub>2</sub> (A. 321, 106 C. 1902 [1] 980).
- \*17)  $\gamma$ -Methyl- $\beta$ -Penten- $\alpha\beta$ -Dicarbonsäure ( $\gamma$ -Methyl- $\gamma$ -Aethylitakonsäure). Sm. 181° u. Zers. Ba, Ag, (A. 321, 116 C. 1902 [1] 980).
- \*42)  $\beta\delta$ -Lakton d.  $\delta$ -Oxy- $\gamma$ -Methylpentan- $\alpha\beta$ -Dicarbonsäure (A. 321, 109 C. 1902 [1] 980).
- \*44)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Oxy- $\beta\beta$ -Dimethylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 163 bis 164°. Ca + 4H<sub>2</sub>O, Pb + 3H<sub>2</sub>O (G. 32 [1] 488 C. 1902 [2] 573).
- \*56) Aethylester d.  $\beta$ -Acetoxypropen- $\alpha$ -Carbonsäure (B. 34, 3768 C. 1902 [1] 29).
- \*59) Aethylester d.  $\beta\delta$ -Diketopentan- $\gamma$ -Carbonsäure. Cu (B. 34, 3768 C. 1902 [1] 29).
- \*68)  $\delta$ -Methyl- $\beta$ -Penten- $\gamma\epsilon$ -Dicarbonsäure (Dicrotonsäure) (B. 35, 341 C. 1902 [1] 569).
- 76)  $\beta$ -Hexen- $\beta\gamma$ -Dicarbonsäure? Ba + H<sub>2</sub>O (B. 35, 2954 C. 1902 [2] 1052).
- 77) 1-Isopropyl-R-Trimethylen-2,2-Dicarbonsäure. Sm. 76—78°. Ag<sub>2</sub> (C. 1902 [2] 106).
- 78) Homopilopsäure. Sd. 235—237°<sub>30</sub>. Ba + H<sub>2</sub>O (B. 33, 2361; 34, 730; Soc. 79, 1338 C. 1902 [1] 50; B. 35, 200 C. 1902 [1] 432).
- 79) Bianhydrid d.  $\alpha$ -Oxyisobuttersäure (Tetramethylglykolid). Sm. 78 bis 79°; Sd. 86°<sub>11</sub> (B. 35, 3643 C. 1902 [2] 1455).

- $C_8H_{12}O_4$  80)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxy- $\beta\beta$ -Dimethylbutan- $\alpha\gamma$ -Dicarbonsäure. Sm. 163 bis 164°. Ca +  $4H_2O$ , Ba +  $5H_2O$  (Bl. [3] 25, 71; G. 32 [1] 488 C. 1902 [2] 573).
- 81)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Oxy- $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure (Trimethylparakonsäure). Sm. 256—257° u. Zers. (B. 35, 2940 C. 1902 [2] 1035).
- 82) Lakton d. Säure  $C_8H_{14}O_5$ . Sm. 89°. Ca (B. 35, 2996 C. 1902 [2] 1048).
- 83) Methylester d. Pilopinsäure. Sd. 275°<sub>757</sub> (Soc. 79, 1335 C. 1902 [1] 50).
- 84) Dimethylester d.  $\beta$ -Buten- $\alpha\delta$ -Dicarbonsäure. Sm. 5°; Sd. 255—260° (M. 22, 799).
- 85) Diäthylester d. Säure  $C_8H_{14}O_4$  (aus Tribrompentan u. Malonsäure-diäthylester). Sd. 115—124° (C. 1902 [1] 27).
- $C_8H_{12}O_5$  \*11) Diäthylester d. Oxalessigsäure. Ni, (Cu,  $NH_3$ ), Cu +  $H_2O$  (B. 35, 248; B. 35, 549 C. 1902 [1] 627; A. 321, 373 C. 1902 [1] 1274; A. 323, 19 C. 1902 [2] 782).
- 21)  $\gamma$ -Oxy- $\gamma$ -Methyl- $\alpha$ -Penten- $\alpha\beta$ -Dicarbonsäure (A. 321, 122 C. 1902 [1] 981).
- 22) 2-Oxy-1,1-Dimethyl-R-Trimethylenmethyläther-2,3-Dicarbon-säure. Sm. 148° (Soc. 79, 761).
- 23)  $\delta$ -Keto- $\beta$ -Methylpentan- $\alpha\alpha$ -Dicarbonsäure. Ag<sub>2</sub> (B. 35, 2181 C. 1902 [2] 374).
- 24)  $\alpha\gamma$ -Lakton d.  $\gamma\delta$ -Dioxybutan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Fl. (B. 34, 1978).
- $C_8H_{12}O_6$  \*2) Pentan- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 156—157°. Ca<sub>3</sub> +  $9H_2O$ , Ba<sub>3</sub> +  $7H_2O$ , Cu<sub>3</sub> +  $5H_2O$  (Soc. 79, 1343 C. 1902 [1] 50; Soc. 79, 1349 C. 1902 [1] 51).
- \*5) Pentan- $\beta\gamma\delta$ -Tricarbonsäure ( $\alpha\alpha_1$ -Dimethyltricarbaldehydsäure).  $\alpha$ -Mod. Sm. 206—207°;  $\beta$ -Mod. Sm. 174°;  $\gamma$ -Mod. Sm. 143°. Ag<sub>3</sub> (Soc. 81, 41 C. 1902 [1] 111, 410).
- 21) fum. Pentan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 140—141° (B. 35, 2949 C. 1902 [2] 1051).
- 22) mal. Pentan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 175—176° (B. 35, 2949 C. 1902 [2] 1051).
- 23) Monomethylester d. cis-Butan- $\alpha\beta\gamma$ -Tricarbonsäure. Fl. (Soc. 81, 40 C. 1902 [1] 410).
- $C_8H_{12}O_7$  \*2) Dimethylester d.  $\beta$ -Oxypropan- $\alpha\beta\gamma$ -Tricarbonsäure +  $H_2O$ . Sm. 125 bis 126°. Ca, Cu +  $H_2O$ , Ag (B. 35, 2086 C. 1902 [2] 188).
- $C_8H_{12}N_2$  \*12) 4-Amido-1-Dimethylamidobenzol.  $H_2S_2O_3$  (C. r. 133, 1216 C. 1902 [1] 303).
- \*17) 2,4-Diamido-1,3-Dimethylbenzol. Sm. 65—66° (B. 35, 640 C. 1902 [1] 750).
- \*18) 4,5-Diamido-1,3-Dimethylbenzol. Sm. 77—78° (B. 35, 640 C. 1902 [1] 750).
- \*19) 4,6-Diamido-1,3-Dimethylbenzol. Sm. 104,5—105° (B. 34, 30; B. 35, 640 C. 1902 [1] 750).
- \*20) 2,3-Diamido-1,4-Dimethylbenzol. Sm. 75° (B. 35, 640 C. 1902 [1] 750).
- \*21) 2,5-Diamido-1,4-Dimethylbenzol. Sm. 149—150° (B. 35, 641 C. 1902 [1] 750).
- \*22) 2,6-Diamido-1,4-Dimethylbenzol. Sm. 102—103° (B. 35, 641 C. 1902 [1] 750).
- 36) 3,4-Diamido-1,2-Dimethylbenzol. Sm. 89° (B. 34, 2251; B. 35, 635 C. 1902 [1] 749).
- 37) 3,5-Diamido-1,2-Dimethylbenzol. Sm. 66—67° (B. 34, 2252; B. 35, 638 C. 1902 [1] 750).
- 38) 3,6-Diamido-1,2-Dimethylbenzol. Sm. 116° (B. 34, 2252; B. 35, 639 C. 1902 [1] 750).
- 39) 4,5-Diamido-1,2-Dimethylbenzol. Sm. 125—126° (B. 34, 2252; B. 35, 638 C. 1902 [1] 750).
- 40) 2,5-Diamido-1,3-Dimethylbenzol. Sm. 103—104° (B. 35, 640 C. 1902 [1] 750).
- 41) 1,2-Di-[Methylamido]benzol. Sm. 34—35°; Sd. 245—255°. HCl (B. 34, 938).



- \*1) Tetraäthylenhexasulfid. Sm. 224—225° (*B.* 34, 212).  
\*9) Tropidin (Tropen). Sd. 163° (*B.* 34, 142, 3163; *A.* 317, 361; *B.* 35, 1870 *C.* 1902 [2] 131; *B.* 35, 1159 *C.* 1902 [1] 1015; *B.* 35, 2295 *C.* 1902 [2] 375).  
\*12) 2-Trimethyldihdropyridin. Sd. 186—189° (*A.* 319, 77).  
13) 1-Methylamido-2,3-Dihydro-R-Hepten. Sd. 65—66°<sub>11</sub>. (2HCl, PtCl<sub>4</sub>) (*A.* 317, 282).  
14) Hämapyrrrol. (Hg, 4HgCl<sub>2</sub>), Pikrat (*B.* 34, 1003, 1687; *B.* 35, 2953 *C.* 1902 [2] 1052).  
15) Isotropidin. Sd. 160° (*A.* 317, 366).  
2) 4-Brom-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 90,5°<sub>16</sub> (*Soc.* 81, 833 *C.* 1902 [2] 450).  
\*5) ζ-Keto-β-Methyl-β-Hepten. Sd. 169—171° (*B.* 34, 595; *B.* 35, 1179 *C.* 1902 [1] 1009).



- \*24) 3-Keto-1,1,2-Trimethyl-R-Pentamethylen (*Am.* 27, 427 *C.* 1902 [2] 365).  
25) α-Oxy-β-Oktin (Amylpropiolalkohol). Sm. —20 bis —17°; Sd. 97,5 bis 98,5°<sub>13</sub> (*C.* 1901 [2] 25; *Bl.* [3] 27, 361 *C.* 1902 [1] 1319).  
26) ε-Keto-ζ-Methyl-β-Hepten<sup>9</sup>. Sd. 161—162° (*A.* 319, 112).  
27) 2-Keto-1,4-Dimethylhexahydrobenzol. Sd. 172—174°<sub>750</sub> (*Bl.* [3] 25, 199).  
28) isom. Ketodimethylhexahydrobenzol<sup>9</sup>. Sd. 169—171° (*B.* 35, 329 *C.* 1902 [2] 1247).  
29) 3-Keto-1,1,2-Trimethyl-R-Pentamethylen. Sd. 164—165° (*Bl.* [3] 27, 76 *C.* 1902 [1] 586).



- \*5) γ-Diketo-β-Methylheptan. Sd. 90—92°<sub>12</sub> (*B.* 35, 1182 *C.* 1902 [1] 1010).  
\*12) R-Heptamethylencarbonsäure. Sd. 139°<sub>15</sub> (*B.* 35, 2691 *C.* 1902 [2] 591).  
\*15) cis-1-Methylhexahydrobenzol-2-Carbonsäure. Sd. 236—237° (*C.* 1902 [1] 1163).  
\*16) trans-1-Methylhexahydrobenzol-2-Carbonsäure. Sm. 50°; Sd. 242° (*C.* 1902 [1] 1163).  
\*17) 1-Methylhexahydrobenzol-3-Carbonsäure. Sd. 134°<sub>15</sub> (*B.* 35, 2689 *C.* 1902 [2] 591).  
51) δδ-Diketoaktan. Fl. (*J. pr.* [2] 63, 367; *G.* 31 [1] 460).  
52) δδ-Diketo-β-Methylheptan (Isovalerylaceton). Sd. 76°<sub>19</sub>. Cu (*C. r.* 133, 821 *C.* 1902 [1] 28).  
53) γδ-Diketo-βε-Dimethylhexan. Fl. (*J. pr.* [2] 63, 368; *G.* 31 [1] 462).  
54) Aldol (aus Isobutyraldehyd u. Crotonaldehyd). Fl. (*M.* 22, 15).  
55) cis-cis-1,3-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 75—77° Ca + 2 H<sub>2</sub>O, Ag (*B.* 34, 2573).  
56) isom. cis-cis-1,3-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 26—30°. Ag (*B.* 34, 2576).  
57) cis-trans-1,3-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 49 bis 50°. Ca + H<sub>2</sub>O, Ag (*B.* 34, 2575).  
58) Mankopalensäure. Sm. 100—105° (*Ar.* 240, 213 *C.* 1902 [1] 1224).  
59) Lakton d. δ-Oxy-ββ-Dimethylbutan-γ-Methylcarbonsäure. Sm. 96 bis 98° (*J. pr.* [2] 65, 176).  
60) Lakton d. γ-Oxymethyl-ββ-Dimethylbutan-δ-Carbonsäure. Sm. 96—98° (*C.* 1901 [1] 668).  
61) Isobutylester d. R-Trimethylen-1-Carbonsäure. Sd. 173—174°<sub>761</sub> (*C.* 1902 [1] 914).  
62) Isobutyryl d. 1-Oxymethyl-R-Trimethylen. Sd. 164°<sub>763</sub> (*C.* 1902 [1] 914).



- \*17) Anhydrid d. Buttersäure. Sd. 198—199°<sub>765</sub> (*B.* 34, 177, 926; *C.* 1902 [2] 1403).  
\*18) Anhydrid d. Isobuttersäure (*B.* 34, 2073).  
\*30) Aethylester d. β-Ketopentan-δ-Carbonsäure (Ae. d. α-Methylävlinsäure). Sd. 206—208° (*C. r.* 134, 180 *C.* 1902 [1] 457).  
\*33) Aethylester d. γ-Keto-β-Methylbutan-α-Carbonsäure. Sd. 204—206° (*C.* 1902 [2] 345).  
\*42) δ-Keto-β-Methylpentan-γ-Methylcarbonsäure. Sm. 73—74°; Sd. 145°<sub>10</sub> (*A.* 323, 341 *C.* 1902 [2] 1204).

- $C_8H_{14}O_3$
- 50)  $\beta$ -Oxy- $\gamma$ -Diketo- $\beta$ -Methylheptan. Sd. 126—127°<sub>15</sub> (B. 35, 1181 C. 1902 [1] 1010).
  - 51)  $\delta$ -Oxy- $\beta$ -Hepten- $\epsilon$ -Carbonsäure. Fl. Ag (B. 35, 3638 C. 1902 [2] 1409).
  - 52)  $\gamma$ - oder  $\delta$ -Oxy- $\gamma$ -Methyl- $\alpha$ -Hexen- $\alpha$ -Carbonsäure. Ag (B. 35, 1146 C. 1902 [1] 984).
  - 53)  $\delta$ -Oxy- $\epsilon$ -Methyl- $\beta$ -Hexen- $\epsilon$ -Carbonsäure. Fl. Na + 5H<sub>2</sub>O, K + H<sub>2</sub>O, Ag (B. 35, 3638 C. 1902 [2] 1409).
  - 54) 1-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sm. 153° (B. 35, 2153 C. 1902 [2] 279).
  - 55) isom. 2-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Fl. (D.R.P. 81443). — \*II, 881.
  - 56) 4-Oxy-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 115° (Soc. 79, 783).
  - 57) Oxysäure (aus d. Oxyketon C<sub>9</sub>H<sub>16</sub>O<sub>3</sub> aus Terpeneol). Sm. bei 130° (C. 1901 [1] 1008).
  - 58)  $\beta$ -Ketoheptan- $\alpha$ -Carbonsäure (C. 1901 [1] 1316; D.R.P. 132802 C. 1902 [2] 169).
  - 59) Methylester d.  $\gamma$ -Ketoheptan- $\beta$ -Carbonsäure. Sd. 86°<sub>18</sub> (C. r. 133, 166).
  - 60) Methylester d.  $\delta$ -Keto- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure (M. d. Isovalerylessigsäure). Sd. 95°<sub>10</sub> (C. r. 133, 821 C. 1902 [1] 28).
  - 61) Aethylester d.  $\delta$ -Oxy- $\beta$ -Penten- $\epsilon$ -Carbonsäure. Sd. 100°<sub>2</sub> (B. 35, 3638 C. 1902 [2] 1408).
  - 62) Aethylester d. 2-Oxy-R-Pentamethylen-1-Carbonsäure. Sd. 110 bis 111°<sub>13</sub> (A. 317, 65).
  - 63) Aethylester d.  $\beta$ -Ketopentan- $\alpha$ -Carbonsäure (Ae. d. Butyrylessigsäure). Sd. 104°<sub>23</sub> (C. 1901 [1] 1195; C. r. 133, 821 C. 1902 [1] 28).
- $C_8H_{14}O_4$
- \*6) Hexan- $\alpha\delta$ -Dicarbonsäure. Sm. 48° (Soc. 79, 130).
  - \*7) Hexan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 59° (A. 317, 108).
  - \*11) Hexan- $\beta\epsilon$ -Dicarbonsäure. Sm. 143,5° (B. 34, 811).
  - \*12) isom. Hexan- $\beta\epsilon$ -Dicarbonsäure. Sm. 75—77° (B. 34, 811).
  - \*21)  $\beta$ -Methylpentan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 94° (Soc. 79, 129).
  - \*47) Diäthylester d. Bernsteinsäure. + 2SbCl<sub>5</sub> (B. 35, 1121 C. 1902 [1] 924).
  - 64) Hexan- $\alpha\gamma$ -Dicarbonsäure. Sm. 66—68° (Soc. 79, 129).
  - 65)  $\beta$ -Methylbutan- $\alpha$ -Carbonsäure- $\beta$ -Methylcarbonsäure. Sm. 87°; Sd. 260°<sub>740</sub>. Zn, Ag<sub>2</sub> (C. 1901 [1] 822).
  - 66)  $\beta\beta$ -Dimethylbutan- $\alpha\delta$ -Dicarbonsäure. Sm. 102°. Ca + xH<sub>2</sub>O, Cu, Ag (C. 1901 [2] 535).
  - 67) Aethylester d. Valerylkohlsäure (C. 1901 [1] 347).
  - 68) Diacetat d.  $\alpha\delta$ -Dioxybutan. Sm. 12°; Sd. 124°<sub>20</sub> (250°<sub>751</sub>) (C. 1901 [1] 818; 1901 [2] 807).
- $C_8H_{14}O_5$
- 32)  $\alpha$ -Oxy- $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure (Trimethylitamsäure). Na<sub>2</sub>, Ag<sub>2</sub> (B. 35, 2941 C. 1902 [2] 1035).
  - 33) Homopilomalsäure (Piluvinsäure). K<sub>2</sub>, Ba + H<sub>2</sub>O, Ag<sub>2</sub> (B. 33, 2361, 2894; 34, 730; Soc. 79, 1339 C. 1902 [1] 50; B. 35, 200 C. 1902 [1] 432).
  - 34) Säure (aus Ketoxyypinen). Ba + 2H<sub>2</sub>O (B. 35, 2997 C. 1902 [2] 1048).
- $C_8H_{14}O_6$
- \*10) Diäthylester d. d-Weinsäure. Antimonpentachlorid-Derivat (Soc. 79, 167; B. 35, 1127 C. 1902 [1] 925; Soc. 81, 1097 C. 1902 [2] 693; Soc. 81, 1134 C. 1902 [2] 693).
  - 20)  $\gamma\delta$ -Dioxy- $\gamma$ -Methylpentan- $\alpha\beta$ -Dicarbonsäure. Ba (A. 321, 114 C. 1902 [1] 980).
  - 21) Dimethylester d. d- $\alpha\beta$ -Dioxyäthandimethyläther- $\alpha\beta$ -Dicarbonsäure. Sm. 51°; Sd. 132°<sub>12</sub> (Soc. 79, 957).
- $C_8H_{14}O_7$
- 2) Säure (aus  $\gamma$ -Oxypropen- $\gamma$ -Carbonsäure). BaH (R. 21, 241 C. 1902 [2] 506).
- $C_8H_{14}N_2$
- 7) Base (aus  $\gamma$ -Brom- $\zeta$ -Semicarbazone- $\beta$ -Methyl- $\beta$ -Hepten). Sd. 95—110°<sub>12</sub> (A. 319, 100).
  - 8) Base (aus  $\gamma$ -Brom- $\zeta$ -Semicarbazone- $\beta$ -Methyl- $\beta$ -Hepten). Sd. 175°<sub>15</sub> (A. 319, 101).
- $C_8H_{14}Br_2$
- 4) 2,5-Dibrom-1,4-Dimethylhexahydrobenzol. Fl. (B. 31, 3206). — \*II, 5.

- $C_8H_{14}Br_2$  5) isom. 2,5-Dibrom-1,4-Dimethylhexahydrobenzol. Sm. 93—94° (B. 31, 3206). — II, 5.
- $C_8H_4S_2$  1) Bistetramethylensulfid. Sd. 300,7<sup>750</sup> (B. 34, 3397).
- $C_8H_{15}N$  \*7) 1-Allylhexahydropyridin (*Ph. Ch.* 17, 227; B. 35, 182 Ann. C. 1902 [1] 429).
- \*9) 1-Methyl-2-Aethenylhexahydropyridin. Sd. 60<sup>13</sup>. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 34, 1890).
- \*20) Tropan (Dihydrotropidin). Sd. 167°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (A. 317, 326).
- \*25) Base (aus  $\zeta$ -Amido- $\beta$ -Methyl- $\beta$ -Hepten) (A. 319, 105).
- 26)  $\beta$ -Diäthyl- $\beta$ -Dihydropyrrol. (2HCl, PtCl<sub>4</sub>) (D.R.P. 127086 C. 1902 [1] 338).
- 27) 2,2,5,5-Tetramethyl-2,5-Dihydropyrrol. Sd. 114—116°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O) (B. 34, 2288; A. 322, 102 C. 1902 [2] 126).
- 28) Hydroscolipidin. Fl. (C. 1902 [2] 844).
- 29) Amidoinfracamphenol. Sd. 158—160<sup>754</sup>. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (*Soc.* 79, 119).
- $C_8H_{16}Cl$  8)  $\beta$ -Chlor-1,3-Dimethylhexahydrobenzol. Sd. 168—170° (*Am.* 25, 290).
- $C_8H_{16}Br$  4) Bromdihydroisolaurolen. Sd. 70—71<sup>15</sup> (B. 20, 2960; A. 319, 309 C. 1902 [1] 33). — I, 136.
- $C_8H_{16}J$  4) 1-Jod-1,3-Dimethylhexahydrobenzol. Sd. 113—115<sup>32</sup> (*Soc.* 79, 349; B. 35, 2680 C. 1902 [2] 589).
- 5) Joddihydroisolaurolen. Sd. 120—121<sup>752</sup> (C. 1902 [1] 33).
- 6) Joddihydroisolaurolen. Sd. 75—80<sup>15-17</sup> (A. 319, 309 C. 1902 [1] 33).
- $C_8H_{16}O$  \*6)  $\delta$ -Oxy- $\delta$ -Dimethyl- $\alpha$ -Hexen (Methylallylisopropylcarbinol). Sd. 155,6° (C. 1901 [1] 668; *J. pr.* [2] 64, 350).
- 34)  $\epsilon$ -Oxy- $\zeta$ -Methyl- $\beta$ -Hepten. Sd. 166—167° (A. 319, 113).
- 35) act. 1-Oxy-1,3-Dimethylhexahydrobenzol. Sd. 67—68<sup>18</sup> (B. 34, 2880; B. 35, 2679 C. 1902 [2] 589).
- 36) isom. act. 1-Oxy-1,3-Dimethylhexahydrobenzol. Sm. 71—72° (B. 35, 2679 C. 1902 [2] 589).
- 37)  $\epsilon$ -[ $\beta$ -Oxyäthyl]-1-Methyl-R-Pentamethylen. Sd. 180° (C. 1902 [1] 1223).
- 38) 3-Oxy-3-Aethyl-1-Methyl-R-Pentamethylen. Sd. 71<sup>21</sup> (B. 34, 3952 C. 1902 [1] 115).
- $C_8H_{16}O_2$  \*10) Caprylsäure. Sd. 236—239°. Ca (C. 1901 [1] 1149; *Soc.* 81, 358 C. 1902 [1] 981).
- 55) Glykol (aus d. Aldol  $C_8H_{14}O_2$ ). Sd. 126—138<sup>17</sup> (M. 22, 17).
- 56) Diäthyläther d.  $\alpha\alpha$ -Dioxy- $\beta$ -Buten. Sd. 146—148° (B. 35, 1906 C. 1902 [2] 22).
- 57) Aethylidenäther d.  $\beta\gamma$ -Dioxy- $\beta\gamma$ -Dimethylbutan. Sd. 134° (Bl. [3] 25, 582).
- 58) Hexan- $\beta$ -Methylcarbonsäure (C. r. 134, 468 C. 1902 [1] 743).
- \*6)  $\delta$ -Oxy- $\beta$ -Methylhexan- $\zeta$ -Carbonsäure. Ba (B. 33, 1204).
- \*14)  $\gamma$ -Oxy- $\beta\delta$ -Dimethylpentan- $\beta$ -Carbonsäure (M. 22, 1111 C. 1902 [1] 461).
- 36)  $\beta\gamma$ -Dioxy- $\zeta$ -Keto- $\beta$ -Methylheptan. Sm. 66—67°; Sd. 134—136<sup>11</sup> (B. 35, 1181 C. 1902 [1] 1010).
- 37)  $\beta$ -Oxy- $\beta$ -Methylhexan- $\alpha$ -Carbonsäure. Fl. Ca, Ba, Zn, Ag (*J. pr.* [2] 64, 563; C. 1901 [1] 997).
- 38)  $\epsilon$ -Oxy- $\beta$ -Methylhexan- $\epsilon$ -Carbonsäure. Sm. 72—73° (C. r. 135, 628 C. 1902 [2] 1359).
- 39)  $\beta$ -Oxy- $\beta\gamma$ -Dimethylpentan- $\alpha$ -Carbonsäure. Fl. Ca, Ba, Zn, Ag (*J. pr.* [2] 64, 563; C. 1901 [1] 997).
- 40)  $\gamma$ -Oxymethyl- $\beta\beta$ -Dimethylbutan- $\delta$ -Carbonsäure. Ca, Ba (C. 1901 [1] 668).
- 41)  $\delta$ -Oxy- $\beta\beta$ -Dimethylbutan- $\gamma$ -Methylcarbonsäure. Ca (*J. pr.* [2] 65, 179).
- 42)  $\beta$ -Oxypropionamyläthersäure. Sd. 251—252<sup>750</sup>. K (C. 1901 [1] 613).
- 43) Aethylster d.  $\gamma$ -Oxypentan- $\beta$ -Carbonsäure. Sd. 213—215° (C. 1901 [2] 30).
- 44) Aethylcarbonat d.  $\beta$ -Oxypentan. Sd. 170—171° (C. 1901 [2] 249).
- 45) Aethylcarbonat d.  $\gamma$ -Oxypentan. Sd. 167—169° (C. 1901 [2] 249).
- 46) Aethylcarbonat d.  $\gamma$ -Oxy- $\beta$ -Methylbutan. Sd. 167—170° (C. 1901 [2] 249).



- $C_8H_{18}O_4$  \*6) Paraldol (*M.* 22, 1140 *C.* 1902 [1] 457).  
 $C_8H_{18}O_6$  7)  $\beta$ -Aethylgalaktosid. Sm. 153—155° (*B.* 35, 3155 *C.* 1902 [2] 1177).  
 8)  $\beta$ -Aethylglykosid. Fl. (*B.* 34, 972).  
 $C_8H_{10}N_2$  13) Granatylamin. 2(HCl, AuCl<sub>3</sub>) (*G.* 31 [1] 566).  
 14) Pseudogranatylamin. Sm. 125°. Pikrat (*G.* 31 [1] 564).  
 $C_8H_{16}Br_2$  \*3)  $\beta$ -Dibrom- $\beta$ -Dimethylhexan. Sm. 71—72° (*B.* 35, 2139 *C.* 1902 [2] 261).  
 $C_8H_{17}N$  \*10) 1-2-Propylhexahydropyridin (l-Coniin). Sd. 166,5°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, HJ, HNO<sub>3</sub> (*B.* 35, 1333 *C.* 1902 [1] 1064).  
 \*12) Isoconiin (*B.* 34, 3416).  
 \*18) 1-Methyl-2-Aethylhexahydropyridin. Sd. 152°. (HCl, 6HgCl<sub>2</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 34, 1892).  
 35)  $\epsilon$ -Amido- $\zeta$ -Methyl- $\beta$ -Hepten. Sd. 156—158°. Oxalat (*A.* 319, 114).  
 36) 3-[ $\beta$ -Amidoäthyl]-1-Methyl-R-Pentamethylen. Oxalat (*C.* 1902 [1] 1223).  
 37) 2-Trimethylhexahydropyridin. Sd. 166°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*A.* 319, 79).  
 38) Base (aus d. Verb.  $C_8H_{14}O$ ). HCl (*A.* 319, 111).  
 $C_8H_{18}O$  \*4)  $\gamma$ -Oxy- $\gamma$ -Aethylhexan (Diäthylpropylcarbinol). Sd. 159° (*C.* 1901 [1] 725).  
 27)  $\beta$ -Oxy- $\beta$ -Methylheptan (Dimethylamylcarbinol). Sd. 162° (*C.* 1901 [1] 725).  
 28)  $\alpha$ -Oxy- $\gamma$ -Methylheptan. Sd. 181°<sub>756</sub> (*C. r.* 133, 1220 *C.* 1902 [1] 298; *C. r.* 134, 467 *C.* 1902 [1] 743).  
 29)  $\gamma$ -Oxy- $\gamma$ -Methylheptan (Methyläthylbutylcarbinol). Sd. 158—160°<sub>715</sub> (*C.* 1902 [1] 1271).  
 30)  $\beta$ -Oxy- $\beta$ -Dimethylhexan. Sd. 150—153°<sub>756</sub> (*C.* 1901 [2] 623; 1902 [1] 1271).  
 $C_8H_{18}O_2$  \*2)  $\gamma$ -Dioxy- $\gamma$ - $\delta$ -Dimethylhexan. Sm. 49° (50°) (*Am.* 26, 315 *C.* 1902 [2] 1199).  
 \*3)  $\alpha$ -Dioxy- $\beta$ - $\beta$ -Trimethylpentan (Oktoglykol). Sm. 51° (*M.* 22, 542; *M.* 22, 1114 *C.* 1902 [1] 461).  
 13)  $\beta$ -Dioxy- $\beta$ - $\epsilon$ -Dimethylhexan. Sm. 92—93° (*B.* 35, 2139 *C.* 1902 [2] 260).  
 $C_8H_{18}O_3$  11)  $\gamma$ - $\zeta$ -Trioxy- $\beta$ - $\gamma$ -Dimethylhexan. Fl. (*C.* 1901 [1] 668; *J. pr.* [2] 64, 351).  
 12)  $\alpha$ -Diäthyläther d.  $\alpha$  $\alpha$  $\gamma$ -Trioxybutan. Sd. 190—195° (*B.* 35, 1909 *C.* 1902 [2] 22).  
 $C_8H_{18}O_4$  4) Tetramethyläther d.  $\alpha$  $\alpha$  $\delta$  $\delta$ -Tetraoxybutan. Sd. 81—85°<sub>14</sub> (201—202°<sub>772</sub>) (*B.* 34, 1492, 1496; *B.* 35, 1187 *C.* 1902 [1] 1011).  
 5)  $\alpha$ -Diäthyläther d.  $\alpha$  $\alpha$  $\beta$  $\gamma$ -Tetraoxybutan. Sd. 110—120°<sub>20</sub> (*B.* 35, 1906 *C.* 1902 [2] 22).  
 $C_8H_{18}N_2$  12)  $\beta$ -Di[Methylamido]- $\gamma$ -Hexen. Sd. 175—176°. 2HCl, Pikrat (*B.* 35, 1340 *C.* 1902 [1] 1048).  
 13) 3,5-Diamido-1,3-Dimethylhexahydrobenzol. Sd. 103—105°<sub>27</sub>. 2HCl, H<sub>3</sub>PO<sub>4</sub> (*B.* 35, 1175 *C.* 1902 [1] 1009).  
 14) 3-Amido-2,2,5,5-Tetramethyltetrahydropyrrol. Sd. 174°<sub>31</sub>. (2HCl, PtCl<sub>4</sub>+3H<sub>2</sub>O), Pikrat, Carbat (*B.* 34, 2287; *A.* 322, 97 *C.* 1902 [2] 126).  
 $C_8H_{19}N$  \*2)  $\beta$ -Amidooktan. Sd. 165—166°<sub>758</sub> (*J. pr.* [2] 64, 117).  
 \*7) Diisobutylamin (*C.* 1902 [1] 3).  
 \*10)  $\beta$ -Propylamidopentan. Sd. 145—146°<sub>754</sub>. HCl, (2HCl, PtCl<sub>4</sub>) (*J. pr.* [2] 63, 225).  
 $C_8H_{20}N_2$  \*5)  $\beta$ -Hydrazidooktan. Sd. 212° (*J. pr.* [2] 64, 118).  
 $C_8H_{20}Si$  \*1) Siliciumtetraäthyl (*Soc.* 79, 456).  
 $C_8H_{21}N_3$  2) Musculamin. Fl. 3HCl (*C. r.* 135, 699 *C.* 1902 [2] 1365).

- $C_8HO_3Cl_3$  2) Anhydrid d. 3,4,6-Trichlorbenzol-1,2-Dicarbonsäure. Sm. 148° (*B.* 34, 2108).  
 $C_8H_2OBr_4$  1) 1,2,4,6-Tetrabrombenzofuran. Sm. 134° (*B.* 34, 783).  
 $C_8H_2OBr_6$  1) 2,3,5,6-Tetrabrom-4-Keto-1-[ $\beta$ - $\beta$ -Dibromäthyliden]-1,4-Dihydrobenzol (Hexabromäthylidenchinon). Sm. 230—235° u. Zers. (*A.* 322, 212 *C.* 1902 [2] 268).



- $C_6H_2OBr_6$  2) Verbindung (aus Hexabromäthylidenchinon). Sm. 165° (A. 322, 214 C. 1902 [2] 268).
- 3) Verbindung (aus Hexabromäthylidenchinon). Sm. oberh. 200° u. Zers. (A. 322, 215 C. 1902 [2] 269).
- $C_6H_2O_3Br_2$  \*2) Anhydrid d. 4,5-Dibrombenzol-1,2-Dicarbonsäure. Sm. 213—215° (B. 34, 2741).
- $C_6H_5OBr_3$  \*1) 1,2,-P-Tribrombenzofuran. Sm. 84—85° (B. 34, 772, 783).
- 3) 1,2,4-Tribrombenzofuran. Sm. 115° (B. 34, 783).
- $C_6H_3OBr_5$  1) 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\beta$ -Bromätheryl]benzol. Sm. 170—171° (A. 322, 200 C. 1902 [2] 267).
- 2) 2,3,5-Tribrom-4-Keto-1-[ $\beta\beta$ -Dibromäthyliden]-1,4-Dihydrobenzol (Pentabromäthylidenchinon). Sm. 180° (A. 322, 216 C. 1902 [2] 269).
- 3) polym. Pentabromäthylidenchinon. Sm. 140—170° (A. 322, 217 C. 1902 [2] 269).
- 4) Verbindung (aus Pentabromäthylidenchinon). Sm. 135—136° (A. 322, 218 C. 1902 [2] 269).
- $C_6H_3OBr_7$  2) 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\alpha\beta\beta$ -Tribromäthyl]benzol. Sm. 174° (A. 322, 194 C. 1902 [2] 266).
- $C_6H_3O_3Cl$  \*1) Anhydrid d. 3-Chlorbenzol-1,2-Dicarbonsäure. Sm. 122° (C. 1901 [2] 1159).
- 3) 3,4,6-Trichlorbenzol-1,2-Dicarbonsäure. Ba + H<sub>2</sub>O (B. 34, 2107).
- $C_6H_3O_3N$  \*1) Anhydrid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 163° (C. 1901 [2] 1158; B. 35, 472 C. 1902 [1] 585).
- $C_6H_4OBr_2$  \*1) 1,2-Dibrombenzofuran. Sm. 25—26° (B. 34 782).
- $C_6H_4OBr_4$  2) 2,3,5-Tribrom-4-Oxy-1-[ $\beta$ -Bromätheryl]benzol. Sm. 167° (A. 322, 199 C. 1902 [2] 267).
- 3) 2,3,5-Tribrom-4-Keto-1-[ $\beta$ -Bromäthyliden]-1,4-Dihydrobenzol (Tetrabromäthylidenchinon) (A. 322, 219 C. 1902 [2] 269).
- $C_6H_4OBr_6$  1) 2,3,5,6-Tetrabrom-4-Oxy-1-( $\alpha\beta$ -Dibromäthyl]benzol. Sm. 179° (A. 322, 193 C. 1902 [2] 266).
- 2) 2,3,5-Tribrom-4-Oxy-1-( $\alpha\beta\beta$ -Tribromäthyl]benzol. Sm. 131—132° (A. 322, 191 C. 1902 [2] 266).
- $C_6H_4O_2N_2$  \*3) Nitril d. 3,6-Dioxybenzol-1,2-Dicarbonsäure + 2H<sub>2</sub>O (C. 1901 [1] 236).
- $C_6H_4O_2Cl_2$  \*4) Dichlorid d. Benzol-1,3-Dicarbonsäure. Sm. 40° (M. 22, 437).
- \*5) Chlorid d. Benzol-1,4-Dicarbonsäure. 2 + Al<sub>2</sub>Cl<sub>6</sub>, 2 + Al<sub>2</sub>Br<sub>6</sub> (Am. 27, 256 C. 1902 [1] 1292).
- $C_6H_4O_2Br_2$  2) Laktone d. 4,5-Dibrom-1-Oxymethylbenzol-2-Carbonsäure (4,5-Dibromphthalid). Sm. 225—227° (B. 34, 2747).
- $C_6H_4O_2Br_4$  2) 1,1-Anhydrid d. 2,5,6-Tribrom-4-Keto-1-Oxy-3-Brommethyl-1-Oxymethyl-1,4-Dihydrobenzol (A. 320, 230 C. 1902 [1] 656).
- $C_6H_4O_2Br_6$  1) 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 156—157° (A. 322, 209 C. 1902 [2] 268).
- $C_6H_4O_2S$  \*1) Anhydrid d. Thiophthalsäure. Sm. 114° (R. 20, 138).
- $C_6H_4O_3N_2$  \*3) Cyanid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 116,5° (95°) (J. pr. [2] 66, 382 C. 1902 [2] 1503).
- $C_6H_4O_3N_2$  \*3) Imid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 202° (C. 1901 [2] 1159; M. 23, 421 C. 1902 [2] 359; B. 34, 4351 C. 1902 [1] 313).
- 4) Imid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 215—216° K (C. 1901 [2] 1158; B. 34, 4351 C. 1902 [1] 313; B. 35, 472 C. 1902 [1] 585; M. 23, 420 C. 1902 [2] 359).
- $C_6H_4O_4Cl_2$  \*1) 3,6-Dichlorbenzol-1,2-Dicarbonsäure (Bl. [3] 25, 499; M. 23, 325 C. 1902 [2] 201).
- $C_6H_4O_4Br_2$  \*2) 4,5-Dibrombenzol-1,2-Dicarbonsäure. Sm. 200—210° (B. 34, 2741).
- $C_6H_4O_4N_2$  C 42,9 — H 1,8 — O 42,8 — N 12,5 — M. G. 224.
- 1) 4-Nitro-1-Keto-1,2-Dihydrobenzoxazol-6-Carbonsäure + xH<sub>2</sub>O. Sm. 263° (wasserfrei) (D.R.P. 90206). — \*II, 899.
- $C_6H_4O_4S_2$  1) 3,4-Dithiocarbonyl-R-Tetramethylen-1,1,2,2-Tetracarbonsäure. Zers. bei 310°. (NH<sub>4</sub>)<sub>2</sub>, Na<sub>2</sub> + 4½ H<sub>2</sub>O, Phenylhydrazinsalz (B. 34, 1047).
- $C_6H_4N_2Br_4$  1) 1,2-Diisocyanbenzoltetrabromid (1,2-Phenylendicarbonylamintetrabromid). Sm. 137—138° (B. 34, 1578).
- 2) 1,4-Diisocyanbenzoltetrabromid. Sm. 137—138° (M. 22, 1076 C. 1902 [1] 463).
- 3) 4,5,6,7-Tetrabrom-2-Methylbenzimidazol. Sm. 317°. HCl, HNO<sub>3</sub> (C. 1902 [2] 941).

- $C_8H_5OBr$  \* 1) 2-Brombenzfuran. Sm. 38—39°; Sd. 219—220° (B. 35, 1636 C. 1902 [1] 1359).
- 4) 1-Brombenzfuran (1-Bromcumaron). Sd. 221—223° (B. 35, 1635 C. 1902 [1] 1359).
- $C_8H_5OBr_3$  3) 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Bromätheryl]benzol. Sm. 110° (A. 322, 229 C. 1902 [2] 277).
- 4) 2,3,5-Tribrom-4-Oxy-1-Aethenylbenzol. Sm. 93—94° (A. 322, 197 C. 1902 [2] 267).
- $C_8H_5OBr_5$  \* 3) 2,5,6-Tribrom-4-Oxy-1,3-Di[Brommethyl]benzol (2,5,6-Tribrom-4-Keto-1,3-Di[Brommethyl]-1,4-Dihydrobenzol). Sm. 172—173° (A. 320, 225 C. 1902 [1] 655).
- \* 4) 3,5,6-Tribrom-2-Oxy-1,4-Di[Brommethyl]benzol. Sm. 184° (B. 35, 143 C. 1902 [1] 467).
- 5) 3,5-Dibrom-4-Oxy-1-[ $\alpha\beta$ -Tribromäthyl]benzol. Sm. 106—107° (A. 322, 230 C. 1902 [2] 277).
- 6) 2,3,5-Tribrom-4-Oxy-1-[ $\alpha\beta$ -Dibromäthyl]benzol. Sm. 129° (131°) (A. 322, 190 C. 1902 [2] 265).
- 7) 2,4,6-Tribrom-5-Oxy-1,3-Di[Brommethyl]benzol. Sm. 201° (B. 35, 147 C. 1902 [1] 468).
- $C_8H_5O_2N$  \* 8) 4-Cyanbenzol-1-Carbonsäure. Sm. 219° (B. 34, 2424).
- 14) Phenylimid d. Oxalsäure (C. 1902 [2] 121).
- $C_8H_5O_2Cl_3$  1) Methyläther d. 2,2,3,5,6-Pentachlor-1-Keto-4-Oxymethyl-1,2-Dihydrobenzol. Sm. 70—72° (A. 320, 191 C. 1902 [1] 652).
- $C_8H_5O_4Br_3$  5) 3,5,6-Tribrom-2-Aethyl-1,4-Benzochinon. Sm. 118—120° (B. 34, 255).
- $C_8H_5O_4Br_5$  2) 2,3,5-Tribrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 125 bis 126° (A. 322, 205 C. 1902 [2] 267).
- 3) 2,5,6-Tribrom-4-Keto-1-Oxy-1,3-Di[Brommethyl]-1,4-Dihydrobenzol. Sm. 182° (A. 320, 228 C. 1902 [1] 656).
- $C_8H_5O_6J_3$  1) 2,4,6-Trijodphenylester d. Essigsäure. Sm. 156° (C. r. 133, 161).
- $C_8H_5O_4N$  \* 1) 1-Nitrobenzfuran. Sm. 134° (B. 35, 1638, 1643 C. 1902 [1] 1360).
- \* 3) Phthalylhydroxylamin (D.R.P. 130680 C. 1902 [1] 1183; D.R.P. 130681 C. 1902 [1] 1184).
- \* 6) Anthranilcarbonsäure (Isatosäure) (D.R.P. 127138 C. 1902 [1] 78).
- 10) 1-Oximido-2-Keto-1,2-Dihydrobenzfuran. Sm. 172° u. Zers. (B. 35, 1644 C. 1902 [1] 1361).
- 11) 2,4-Diketo-3,4-Dihydro-1,3-Benzoxazin. (Carbonsalicylamid). Sm. 227° Na, Ag + H<sub>2</sub>O (B. 35, 3650 C. 1902 [2] 1457; B. 35, 3653 C. 1902 [2] 1458).
- $C_8H_5O_6N_3$  2) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 164—165° Na (J. pr. [2] 66, 369 C. 1902 [2] 1501).
- $C_8H_5O_4N$  \* 6) Imid d. 3,6-Dioxybenzol-1,2-Dicarbonsäure (C. 1901 [1] 237).
- $C_8H_5O_4N_3$  5) Nitril d. 5-Nitro-3-Nitroso-2-Oxy-1-Methylbenzol-4-Carbonsäure? (o-Kresylpurpursäure). K (B. 35, 571 C. 1902 [1] 583).
- 6) Hydrazid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 320° u. Zers. (C. 1901 [2] 1159).
- 7) Hydrazid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Zers. bei 280° (C. 1901 [2] 1160).
- $C_8H_5O_4Br$  \* 7) 2-Brombenzol-1,4-Dicarbonsäure (M. 23, 330 C. 1902 [2] 201).
- $C_8H_5O_5N$  7) 2-Nitroso-3,4-Dioxybenzylmethylenäther-1-Carbonsäure (o-Nitroso-piperonylsäure). Sm. 160—165° u. Zers. (C. 1902 [1] 1190; B. 35, 1996). C 43,1 — H 2,2 — O 35,9 — N 18,8 — M. G. 223.
- $C_8H_5O_5N_3$  1) Nitril d. 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 148 bis 149° K, + Anilin (B. 35, 573 C. 1902 [1] 583).
- $C_8H_5O_6N$  \* 2) 3-Nitrobenzol-1,2-Dicarbonsäure. Zers. bei 207°; Sm. 222° (u. D.). Monoanilinsalz, Mono-o-Toluidinsalz (C. 1901 [2] 1158; M. 23, 320 C. 1902 [2] 201).
- \* 3) 4-Nitrobenzol-1,2-Dicarbonsäure. Monoanilinsalz (C. 1901 [2] 1159; M. 23, 323 C. 1902 [2] 201).
- \* 6) 2-Nitrobenzol-1,4-Dicarbonsäure (M. 23, 331 C. 1902 [2] 201).
- \* 12) Pyridin-3,4,5-Tricarbonsäure + 3H<sub>2</sub>O. Zers. bei 260° (A. 322, 378 C. 1902 [2] 736).
- $C_8H_5O_6N_5$  3) Nitril d. 3,5-Dinitro-2-Methylnitramidobenazol-1-Carbonsäure. Sm. 112° (R. 21, 275 C. 1902 [2] 514).
- $C_8H_5NS_2$  1) Phenylimid d. Dithiooxalsäure (C. 1901 [2] 28; 1902 [2] 121).

- $C_8H_5N_2Br_3$  1) 4,6,?-Tribrom-2-Methylbenzimidazol. Sm. 273—278°.  $HCl + H_2O$ ,  $HNO_3$  (C. 1902 [2] 941).
- $C_8H_5N_3Br_5$  1) 2,3,4,6,?-Pentabrom-2-Methyl-2,3-Dihydrobenzimidazol.  $HBr$  (C. 1902 [2] 940).
- $C_8H_5ON_2$  \*18) Cyanamid d. Benzolcarbonsäure. Sm. 143° (B. 35, 255).  
\*20) Nitril d.  $\alpha$ -Oximido- $\alpha$ -Phenylelessigsäure. Sm. 128° (129°)  $Na + 4H_2O$  (B. 35, 1759 C. 1902 [2] 19; J. pr. [2] 66, 359 C. 1902 [2] 1500).  
C 55,1 — H 3,4 — O 9,2 — N 32,2 — M. G. 174.
- $C_8H_5ON_4$  1) Nitril d. Phenylnitrosohydrazonessigsäure. Sm. 157—158° (G. 31 [1] 582).
- $C_8H_5OCl_2$  8) Chlorid d. 1-Chlormethylbenzol-2-Carbonsäure. Sd. 265° (C. 1901 [2] 938).
- $C_8H_5OBr_2$  5) 3,5-Dibrom-4-Oxy-1-Aethenylbenzol. Sm. 73—74° (A. 322, 235 C. 1902 [2] 278).  
6) Bromid d. d-Phenylbromessigsäure. Sd. 145—147°<sub>24</sub> (B. 28, 1296). — \*II, 817.  
7) Bromid d. i-Phenylbromessigsäure (B. 28, 2445). — \*II, 817.
- $C_8H_5OBr_4$  \*1) 2,3,5,6-Tetrabrom-4-Oxy-1-Aethylbenzol. Sm. 109—110° (A. 322, 188 C. 1902 [2] 265).  
8) 2,5,6-Tribrom-3-Oxy-4-Brommethyl-1-Methylbenzol. Sm. 117° (B. 34, 144 C. 1902 [1] 467).  
9) 2,3,5-Tribrom-4-Oxy-1-[ $\alpha$ -Bromäthyl]benzol. Sm. 87° (A. 322, 195 C. 1902 [2] 266).  
10) 3,5-Dibrom-4-Oxy-1-[ $\alpha\beta$ -Dibromäthyl]benzol. Sm. 123° (A. 322, 232 C. 1902 [2] 277).  
11) Methyläther d. 3,4,5,6-Tetrabrom-2-Oxy-1-Methylbenzol. Sm. 140,5° (B. 35, 150 C. 1902 [1] 468).  
12) Methyläther d. 2,4,5,6-Tetrabrom-3-Oxy-1-Methylbenzol. Sm. 145 bis 146° (B. 35, 150 C. 1902 [1] 468).
- $C_8H_5O_2N_2$  \*9) 3-Oximido-2-Oxypseudoindol (Isatoxin). Sm. 202° (B. 35, 220 C. 1902 [1] 393).  
\*25) Nitril d. 4-Nitrophenylelessigsäure. Sm. 114,5° (J. pr. [2] 66, 369 C. 1902 [2] 1501).  
33) 1,4-Diketo-1,2,3,4-Tetrahydro-2,7-Benzodiazin. Zers. bei 195°. (2HCl, PtCl), Pikrat (B. 35, 1362 C. 1902 [1] 1112).  
34) Benzimidazol-7-Carbonsäure. Sm. noch nicht bei 360° (B. 34, 905).  
35) Nitril d. Phenylisonitroessigsäure. Na (B. 35, 1757 C. 1902 [2] 19).
- $C_8H_5O_2Cl_2$  16) Chlorformiat d. Chloroxymethylbenzol. Fl. (C. 1901 [2] 69).  
17) Nitril d. 4-Chlorphenylchloroessigsäure. Sm. 118° (J. pr. [2] 65, 266 C. 1902 [1] 1214).
- $C_8H_5O_2Cl_4$  5) 1-Methyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 132—153° (A. 320, 189 C. 1902 [1] 652).
- $C_8H_5O_2Br_2$  \*3) 3,6-Dibrom-2,5-Dimethyl-1,4-Benzochinon. Sm. 184° (B. 35, 436 C. 1902 [1] 641).  
\*7) 4,5-Dibrom-1-Methylbenzol-2-Carbonsäure. Sm. 210° (B. 34, 2747).  
18) Aldehyd d. 5-Brom-4-Oxy-1-Brommethyl-3-Carbonsäure. Sm. 112 bis 113° (B. 35, 128 C. 1902 [1] 465).
- $C_8H_5O_2Br_4$  4) 3,5-Dibrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 147—148° (A. 322, 231 C. 1902 [2] 277).  
5) 2,3,5-Tribrom-4-Oxy-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 147—148° (A. 322, 203 C. 1902 [2] 267).  
6) 3,5,6-Tribrom-2-Oxy-4-Brommethyl-1-Oxymethylbenzol. Sm. 142 bis 143° (B. 35, 148 C. 1902 [1] 468).  
7) 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Aethyl-1,4-Dihydrobenzol. Sm. 140° (B. 34, 255).  
8) 1-Methyläther d. 2,3,5,6-Tetrabrom-4-Oxy-1-Oxymethylbenzol. Sm. 144° (A. 320, 215 C. 1902 [1] 654).
- $C_8H_5O_2J_2$  \*1) 2,4-Diodphenylester d. Essigsäure. Sm. 70—71° (Bl. [3] 25, 632).  
3) 2,5-Diodphenylester d. Essigsäure. Sm. 70° (C. r. 135, 580 C. 1902 [2] 580).
- $C_8H_5O_2Cl_2$  \*6) 3,5-Dichlor-2-Oxybenzolmethyläther-1-Carbonsäure. Sm. 166,5 bis 167° (G. 32 [1] 545 C. 1902 [2] 635).  
7) Dichlormethyl-3,4-Dioxyphenylketon. Sm. 112° (B. 34, 92).

- $C_8H_6O_3Cl_4$  3) Verbindung (aus 1,3,5-Trioxybenzoldimethyläther). Sm. 115—117° (*M.* 23, 585 *C.* 1902 [2] 739).
- $C_8H_6O_3Br_2$  \*4) 2,6-Dibrom-3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 233—234° (*G.* 31 [1] 160).
- \*8) Methylester d. 3,5-Dibrom-4-Oxybenzol-1-Carbonsäure. Sm. 121° (*M.* 22, 439).
- $C_8H_6O_3Br_4$  \*1) Tetrabromflicinsäure. Sm. 139—140° (*A.* 318, 245).
- $C_8H_6O_4N_2$  \*1)  $\beta$ -Nitro- $\alpha$ -[2-Nitrophenyl]äthen. Sm. 106—107°; Sd. 200°<sub>20</sub> (*C.* 1902 [2] 449).
- 6) Oximidomethyl-3-Nitrophenylketon. Sm. 152° (*Ar.* 240, 11 *C.* 1902 [1] 472).
- $C_8H_6O_4N_4$  2) Nitril d. 3,5-Dinitro-2-Methylamidobenzol-1-Carbonsäure. Sm. 161° (*R.* 21, 274 *C.* 1902 [2] 514).
- 3) Verbindung (aus Hefe) (*H.* 32, 67).
- $C_8H_6O_4Cl_2$  4) Dichlormethyl-2,3,4-Trioxyphenylketon. Sm. 165—166° (*B.* 34, 94).
- 5) Methylester d. 2,5-Dichlor-3,4-Dioxybenzol-1-Carbonsäure +  $H_2O$ . Sm. 105° (97°) (*G.* 31 [1] 559; 31 [2] 96; *G.* 32 [1] 559 *C.* 1902 [2] 639).
- 6) Methylester d. 5,6-Dichlor-3,4-Dioxybenzol-1-Carbonsäure. Sm. 223—225° u. Zers. (*G.* 31 [1] 557; 31 [2] 96).
- $C_8H_6O_5N_2$  8) Methyl-3,5-Dinitrophenylketon. Sm. 82—84° (*J. pr.* [2] 65, 292 *C.* 1902 [1] 1217).
- 9) Methylester d. 4-Nitro-2-Nitrosobenzol-1-Carbonsäure. Sm. 137 bis 138° (*B.* 35, 1267 *C.* 1902 [1] 1102; *M.* 23, 652 *C.* 1902 [2] 742).
- 10) 1-Amid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 156° u. Zers. (*C.* 1901 [2] 1159; *B.* 35, 3866).
- $C_8H_6O_5Cl_2$  1) Methylester d. 2,6-Dichlor-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2} H_2O$ . Sm. 169—170° (wasserfrei) (*G.* 31 [2] 185; *G.* 32 [1] 565 *C.* 1902 [2] 639).
- $C_8H_6O_5Br_2$  \*1) Methylester d. 2,6-Dibrom-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2} H_2O$ . Sm. 169° (wasserfrei) (*G.* 31 [2] 359 *C.* 1902 [1] 38; *G.* 32 [1] 567 *C.* 1902 [2] 639).
- $C_8H_6O_6N_2$  \*2) 4,6-Dinitro-1-Methylbenzol-2-Carbonsäure. Sm. 205—206° (*R.* 20, 175).
- \*5) 2,6-Dinitro-1-Methylbenzol-4-Carbonsäure. Sm. 158,5° (*R.* 20, 159).
- 15) 2,4-Dinitro-1-Methylbenzol-3-Carbonsäure. Sm. 173° (*R.* 20, 167).
- $C_8H_6O_5N_4$  \*1) Alloxantin +  $2 H_2O$  (*A.* 315, 249; *C.* 1902 [1] 631).
- $C_8H_6NCl$  9) Nitril d. 2-Chlorphenylessigsäure. Sm. 29° (24°); Sd. 253—255° (*J. pr.* [2] 62, 554; *J. pr.* [2] 66, 376 *C.* 1902 [2] 1502). — \*II, 816.
- $C_8H_6NCl_3$  2)  $\beta\beta\beta$ -Trichloräthylidenamidobenzol.  $H_2SO_3$  (*A.* 316, 130).
- $C_8H_6N_2Br_2$  2) 4,6-Dibrom-2-Methylbenzimidazol. Sm. 238°. HCl, (2 HCl, PtCl<sub>4</sub>), HBr +  $3 H_2O$ , 2 HNO<sub>3</sub> (*C.* 1902 [2] 941).
- 3) 5,7-Dibrom-2-Methylbenzimidazol. Sm. 236°. HBr, HNO<sub>3</sub> (*C.* 1902 [2] 940).
- $C_8H_6N_2Br_4$  1) 2,3,4,6-Tetrabrom-2-Methyl-2,3-Dihydrobenzimidazol. HBr (*C.* 1902 [2] 940).
- $C_8H_6N_2S_2$  5) 2-[2-Thiazolylimido]methylthiophen. Sm. 109° (*B.* 34, 845).
- 6) isom. 2-[2-Thiazolylimido]methylthiophen. Sm. 47—48° (*B.* 34, 845).
- $C_8H_7ON$  \*8) 3-Oxyindol. Sm. 85° (*B.* 34, 1856; *B.* 35, 1701 *C.* 1902 [1] 1364).
- \*16) Nitril d.  $\alpha$ -Oxyphenylessigsäure (N. d. Mandelsäure) (*C.* 1902 [1] 4).
- \*25) Nitril d. 4-Oxybenzoldimethyläther-1-Carbonsäure. Sm. 59° (*B.* 34, 2026).
- $C_8H_7ON_3$  19) Methyläther d. 4-Oxybenzoldiazoniumcyanid. HCN +  $2 H_2O$  (*B.* 34, 4167 *C.* 1902 [1] 305).
- 20) 4-Keto-2-Methyl-3,4-Dihydro-1,3,7-Benzotriazin. Sm. 288° (*B.* 35, 2840 *C.* 1902 [2] 996).
- 21) Azid d. Phenylessigsäure (*J. pr.* [2] 64, 319).
- $C_8H_7OCl$  \*2) Chlormethylphenylketon. Sm. 58—59° (*B.* 34, 1902).
- \*4) Chlorid d. Phenylessigsäure. Sd. 180—183° u. Zers. (*M.* 22, 427).
- \*5) Chlorid d. 1-Methylbenzol-2-Carbonsäure. Sd. 212°<sub>762</sub> (*R.* 20, 169).
- \*6) Chlorid d. 1-Methylbenzol-3-Carbonsäure. Sm. —23°; Sd. 219 bis 220°<sub>779</sub> (*R.* 20, 162).
- \*7) Chlorid d. 1-Methylbenzol-4-Carbonsäure. Sm. —2° bis —1,5°; Sd. 90—95,5°<sub>10</sub> (225—227°) (*R.* 20, 156; *M.* 22, 425).

- $C_8H_7OBr_3$  \*3) 2,3,5-Tribrom-4-Oxy-1-Aethylbenzol. Sm. 54—55° (A. 322, 186 C. 1902 [2] 265).
- 13) P-Tribrom-2-Oxy-1-Aethylbenzol. Sm. 74° (B. 35, 1631 C. 1902 [1] 1359).
- 14) 3,5-Dibrom-4-Oxy-1-[ $\alpha$ -Bromäthyl]benzol. Fl. (A. 322, 236 C. 1902 [2] 278).
- $C_8H_7OJ_3$  1) Aethyläther d. 2,4,6-Trijod-1-Oxybenzol. Sm. 83° (C. r. 133, 161).
- $C_8H_7O_2N$  \*1)  $\beta$ -Nitro- $\alpha$ -Phenyläthen (C. r. 134, 1147 C. 1902 [2] 21).
- \*2) polym.  $\beta$ -Nitro- $\alpha$ -Phenyläthen. Sm. 280° u. Zers. (A. 320, 78).
- \*15) Hydroisatin. Sm. 217° (B. 34, 1541).
- \*18)  $\beta$ -[2-Pyridyl]akrylsäure. HCl (Ar. 240, 184 C. 1902 [1] 1232).
- 30) Methyl-2-Nitrosophenylketon (oder 2,2<sup>1</sup>-Diacetylazoxybenzol). Sm. 101—102° (Ar. 240, 437 C. 1902 [2] 939).
- 31) 2-Methylenamidobenzol-1-Carbonsäure. Sm. 165° u. Zers. (C. 1901 [1] 486). — \*II, 786.
- $C_8H_7O_2N_3$  \*1) Phenylurazol (5-Oxy-3-Keto-2-Phenyl-2,3-Dihydro-1,2,4-Triazol). Sm. 264° u. Zers. (259—260°). Ba + 2H<sub>2</sub>O, Ag (B. 35, 557 C. 1902 [1] 635; G. 31 [2] 554 C. 1902 [1] 480).
- 15) Nitroapoharmin. (2HCl, PtCl<sub>4</sub>) (C. 1901 [1] 958).
- $C_8H_7O_2Cl$  \*25) Benzylester d. Chlorameisensäure (C. 1901 [1] 652).
- \*27) Chlorid d. 2-Oxybenzolzomethyläther-1-Carbonsäure. Sd. 145°<sub>17</sub> (C. 1902 [2] 216).
- \*28) Chlorid d. 4-Oxybenzolzomethyläther-1-Carbonsäure. Sm. 24°; Sd. 262—263° (M. 22, 428; B. 35, 2814 C. 1902 [2] 1117).
- \*31) Aldehyd d. 4-Oxy-1-Chlormethylbenzol-3-Carbonsäure. Sm. 88° (B. 34, 2457).
- 33) Chlormethylester d. Benzolcarbonsäure. Sd. 200° u. Zers. (C. r. 133, 97; C. r. 133, 1213 C. 1902 [1] 256).
- 34) Chlorid d. 3-Oxybenzolzomethyläther-1-Carbonsäure. Sd. 242 bis 243°<sub>733</sub> (B. 35, 2813 C. 1902 [2] 1117).
- $C_8H_7O_2Br$  \*21) Aldehyd d. 4-Oxy-1-Brommethylbenzol-3-Carbonsäure. Sm. 102 bis 103° (B. 35, 126 C. 1902 [1] 465).
- 22) Aldehyd d. 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 78° (B. 34, 2101).
- $C_8H_7O_2Br_3$  6) 3,4,6-Tribrom-2,5-Dioxy-1-Aethylbenzol. Sm. 141° (B. 34, 255). — \*II, 584.
- 7) 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 107° (A. 322, 233 C. 1902 [2] 277).
- 8) 2,3,5-Tribrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 117° (A. 322, 201 C. 1902 [2] 267).
- 9) 2,3,5-Tribrom-1-Oxy-4-Keto-1-Aethyl-1,4-Dihydrobenzol. Sm. 105° (B. 34, 257).
- 10) 2,5,6-Tribrom-1-Oxy-4-Keto-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 176° (173—174°) (B. 34, 256; A. 302, 164). — \*II, 445.
- 11) 1-Methyläther d. 2,3,5-Tribrom-4-Oxy-1-Oxymethylbenzol. Sm. 72° (A. 320, 210 C. 1902 [1] 653).
- 12) Verbindung (aus d. Verb. C<sub>8</sub>H<sub>6</sub>O<sub>3</sub>NBr<sub>3</sub>). Sm. 178—180° (A. 302, 163). — \*II, 442.
- $C_8H_7O_2J$  \*10) Aldehyd d. 4-Oxy-1-Jodmethylbenzol-3-Carbonsäure. Sm. 125 bis 126° (B. 35, 126 C. 1902 [1] 465).
- $C_8H_7O_3N$  \*1)  $\alpha$ -Nitroacetophenon (B. 35, 1009 C. 1902 [1] 868).
- \*3) Methyl-2-Nitrophenylketon. Sd. 178—179°<sub>32</sub> (Ar. 240, 12 C. 1902 [1] 472).
- \*4) Methyl-3-Nitrophenylketon. Sm. 80—81°; Sd. 202° (B. 34, 3522; Ar. 240, 6 C. 1902 [1] 472).
- \*28) Monamid d. Benzol-1,4-Dicarbonsäure? Sm. 214° (B. 34, 2425).
- 39) 4-Amidobenzol-1-Ketocarbonsäure (C. 1901 [1] 238).
- 40) Methylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 152—153° (B. 34, 2044; C. 1901 [1] 1190). — \*II, 770.
- $C_8H_7O_3N_3$  2) Nitril d. 5-Nitro-6-Oxy-2,4-Dimethylpyridin-3-Carbonsäure. Sm. 262° (260°). Na, K (C. 1901 [1] 1053; Soc. 81, 107 C. 1902 [1] 427).
- 3) Nitril d. 3-Nitro-6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 272° (263—264°) (C. 1901 [1] 1053; Soc. 81, 107 C. 1902 [1] 427).



- $C_8H_7O_3Cl$  \*6) 6-Chlor-3-Oxybenzolzomethyläther-1-Carbonsäure. Sm. 168—169° (*G.* 32 [1] 548 *C.* 1902 [2] 638).
- \*21) 2-Methoxyphenylester d. Chlorameisensäure. Sd. 112°<sub>25</sub> (*C.* 1901 [1] 428).
- $C_8H_7O_3Cl_3$  3) Dimethyläther d. 2,4,6-Trichlor-1,3,5-Trioxybenzol. Sm. 93 bis 95° (*M.* 23, 586 *C.* 1902 [2] 740).
- $C_8H_7O_3Br$  \*13) 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 231—232° (236°) (*B.* 34, 2102; *M.* 22, 950 *C.* 1902 [1] 194).
- 15) Aldehyd d. 5-Brom-4-Oxy-1-Oxymethylbenzol-3-Carbonsäure. Sm. 84—85° (*B.* 35, 128 *C.* 1902 [1] 465).
- $C_8H_7O_4N$  \*11) 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 184—184,5° (*R.* 20, 175).
- \*16) 2-Nitro-1-Methylbenzol-4-Carbonsäure. Sm. 188,5—189° (*R.* 20, 158).
- \*22) 3-Amidobenzol-1,2-Dicarbonsäure. Sm. 184—186° u. Zers. (226°). Cu, Ag<sub>2</sub> (*B.* 34, 3746 *C.* 1902 [1] 40; *B.* 34, 4352 *C.* 1902 [1] 313).
- \*23) 4-Amidobenzol-1,2-Dicarbonsäure. Sm. oberh. 280° (*B.* 34, 4352 *C.* 1902 [1] 313).
- \*27) Hydroxylphthalamidsäure. Sm. 204—206° (220°) (D.R.P. 130 681 *C.* 1902 [1] 1184; D.R.P. 135 836 *C.* 1902 [2] 1286).
- \*28) Apophyllensäure. Sm. 240° (242°) (*M.* 23, 247 *C.* 1902 [1] 1367; *M.* 23, 258 *C.* 1902 [1] 1368; *M.* 23, 768 *C.* 1902 [2] 1056).
- \*41) Aldehyd d. 6-Nitro-3-Oxybenzolzomethyläther-1-Carbonsäure (*B.* 34, 3999 *C.* 1902 [1] 201).
- \*43) Methylester d. 2-Nitrobenzol-1-Carbonsäure. Sd. 150,5°<sub>10</sub> (*C.* 1901 [1] 1126).
- \*46) 4-Methylester d. Pyridin-3,4-Dicarbonsäure. Cu, HCl (*M.* 23, 239 *C.* 1902 [1] 1367; *M.* 23, 253 *C.* 1902 [1] 1368).
- 54) 3,4-Methylenäther d. 3,4-Dioxybenzhydroxamsäure. Sm. 172 bis 173°. Cu (*G.* 31 [2] 31, 88).
- 55)  $\alpha$ -Oximido- $\alpha$ -[2-Oxyphenyl]essigsäure. Sm. 149° (144°) u. Zers. (*B.* 35, 1646 *C.* 1902 [1] 1361).
- 56) 4-Methylpyridin-3,5-Dicarbonsäure. Sm. 182—284° (*A.* 322, 378 *C.* 1902 [2] 736).
- 57) 1,3-Methylbetain d. Pyridin-2,3-Dicarbonsäure + H<sub>2</sub>O. Sm. 151° u. Zers. Ca + 3H<sub>2</sub>O, Ag + H<sub>2</sub>O (*M.* 22, 366).
- 58) 3-Methylester d. Pyridin-3,4-Dicarbonsäure. Sm. 160°. K, Cu, Ag (*M.* 23, 255 *C.* 1902 [1] 1368; *M.* 23, 683 *C.* 1902 [2] 1055; *M.* 23, 933 *C.* 1902 [2] 1476).
- $C_8H_7O_4N_3$  8) Diisontaminbenzyleyanid. Ba (*A.* 300, 127). — \*II, 822.
- 9) Amid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 200—201° u. Zers. (*C.* 1901 [2] 1159).
- 10) Amid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 200° (*C.* 1901 [2] 1159).
- $C_8H_7O_5N$  \*29) 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 199° (*M.* 22, 939 *C.* 1902 [1] 193).
- \*30) 6-Oxy-2-Methylpyridin-3,5-Dicarbonsäure + H<sub>2</sub>O. Sm. 303° (wasserfrei) (*G.* 31 [1] 173).
- $C_8H_7O_5N_3$  \*8) 2,4-Dinitrophenylamid d. Essigsäure (D.R.P. 126 965 *C.* 1902 [1] 153).
- $C_8H_7O_5N_6$  C 37,9 — H 2,8 — O 31,6 — N 27,7 — M. G. 253.
- 1) 2,4-Dinitrobenzylidenamidoharnstoff. Sm. 265° u. Zers. (*B.* 35, 2710 *C.* 1902 [2] 637).
- $C_8H_7O_5Cl$  2) Methylester d. 2-Chlor-3,4,5-Trioxybenzol-1-Carbonsäure + H<sub>2</sub>O. Sm. 159—160° (wasserfrei) (*G.* 31 [2] 188; *G.* 32 [1] 564 *C.* 1902 [2] 639).
- $C_8H_7O_6N$  \*4) 5-Nitro-2,4-Dioxybenzol-4-Methyläther-1-Carbonsäure. Sm. 230° u. Zers. (*Soc.* 81, 1056 *C.* 1902 [2] 750).
- $C_8H_7O_6N_2$  12) Amid d. 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 231° (*B.* 35, 574 *C.* 1902 [1] 583).
- $C_8H_7O_7N_3$  4) 2,4,6-Trinitro-5-Oxy-1,3-Dimethylbenzol. Sm. 104° (*R.* 20, 422 *C.* 1902 [1] 419).
- 5) Methyläther d. 3,4,5-Trinitro-2-Oxy-1-Methylbenzol. Sm. 111 bis 112° (*B.* 34, 2241).
- $C_8H_7O_7As$  1) Phenylarsinsäure-2,4-Dicarbonsäure (*A.* 320, 335 *C.* 1902 [1] 922).
- $C_8H_7O_8N_3$  4) Monoäthyläther d. 2,4,6-Trinitro-1,3-Dioxybenzol. Strychuinsalz (*R.* 21, 259 *C.* 1902 [2] 519).

- $C_8H_7O_8N_5$  \*1) **2, 4, 6-Trinitro-1-Aethylnitramidobenzol.** Sm. 96° (*R.* 21, 272 *C.* 1902 [2] 514).
- $C_8H_7O_9N_5$  \*2) **Dimethyläther d. 2, 4, 6-Trinitro-1, 3, 5-Trioxybenzol.** Sm. 77° (*R.* 21, 263 *C.* 1902 [2] 519).  
 $C_{30}H_{33}O_9N_5$  C 30,3 — H 2,2 — O 45,4 — N 22,1 — M. G. 317.
- $C_8H_7O_9N_5$  1) **2, 4, 6-Trinitro-3-Aethylnitramido-1-Oxybenzol.** Sm. 106° u. Zers. (*R.* 21, 260 *C.* 1902 [2] 519).
- $C_8H_7O_{10}N_7$  \*1) **2, 4, 6-Trinitro-1, 3-Di[Methylnitramido]benzol.** Zers. bei 203° (*R.* 21, 291 *C.* 1902 [2] 513).
- $C_8H_7NS$  11) **4-Methylphenylrhodanid.** Sd. 240—245° (*Bl.* [3] 27, 690 *C.* 1902 [2] 447).
- 12) **Nitril d. 1-Merkaptomethylbenzol-3-Carbonsäure.** Sm. 24—25°; Sd. bei 180° (*B.* 34, 3373).
- $C_8H_7N_2Cl$  2) **3-Chlor-2-Methylindazol.** Sd. 268,5°<sub>754</sub> (*B.* 34, 798).
- 3) **Nitril d. 6-Chlor-2, 4-Dimethylpyridin-3-Carbonsäure.** Sm. 165 bis 166° (*Soc.* 81, 111 *C.* 1902 [1] 427).
- $C_8H_7N_2Br$  \*1) **6-Brom-2-Methylbenzimidazol.** Sm. 218°.  $HCl + H_2O$ , (2HCl,  $PtCl_4 + 2H_2O$ ), ( $HCl$ ,  $AuCl_3 + H_2O$ ),  $HNO_3$  (*C.* 1902 [2] 940).
- 3) **4-Brom-2-Methylbenzimidazol.** Sm. 210—211°.  $HCl + H_2O$ , (2HCl,  $PtCl_4 + H_2O$ ),  $HNO_3$  (*C.* 1902 [2] 941).
- $C_8H_7N_2Br_3$  1) **2, 3, 4-Tribrom-2-Methyl-2, 3-Dihydrobenzimidazol.** HBr (*C.* 1902 [2] 940).
- $C_8H_7N_3S$  6) **5-Amido-2-Phenyl-1, 3, 4-Thiodiazol.** Sm. 222—223°.  $HCl$  (*Soc.* 79, 57).
- $C_8H_8ON_2$  16) **Nitril d. 6-Oxy-2, 4-Dimethylpyridin-3-Carbonsäure.** Sm. 305° (293°). Na, K (*J. pr.* [2] 39, 239; [2] 52, 89; *C.* 1901 [1] 1053; *Soc.* 81, 101 *C.* 1902 [1] 426). — I, 1455; IV, 1151; \*I, 802.
- $C_8H_8ON_4$  9) **3-Imido-5-Keto-1-Phenyltetrahydro-1, 2, 4-Triazol.** Sm. 272—273° Ag,  $HCl + H_2O$  (*G.* 31 [1] 490).
- $C_8H_8ON_6$  3) **2-Nitroso-3, 5-Diimido-1-Phenyltetrahydro-1, 2, 4-Triazol.** Sm. 245° (*G.* 31 [1] 588).
- $C_8H_8OCl_2$  6) **4-Keto-1-Dichlormethyl-1-Methyl-1, 4-Dihydrobenzol.** Sm. 55° (*B.* 35, 468 *C.* 1902 [1] 647).
- $C_8H_8OJ_2$  2) **Aethyläther d. 2, 6-Dijod-1-Oxybenzol.** Sm. 41—42° (*C. r.* 134, 358 *C.* 1902 [1] 638).
- $C_8H_8O_2N_2$  \*12) **Phenylhydrazonessigsäure.** Sm. 140° u. Zers. (*G.* 31 [1] 583).
- \*17) **Amid d. Phenylloxaminsäure.** Sm. 228° (*J. pr.* [2] 66, 360 *C.* 1902 [2] 1501).
- \*20) **Diamid d. Benzol-1, 3-Dicarbonsäure.** Sm. 270—272° (*M.* 22, 437).
- 28) **2-Nitro-1-Methylimidomethylbenzol** (Methyl-2-Nitrobenzylidenamin). Sd. 145°<sub>23</sub> (*B.* 35, 424 *C.* 1902 [1] 657).
- $C_8H_8O_2N_4$  \*11) **4-Amido-3-Oxy-5-Keto-1-Phenyl-4, 5-Dihydro-1, 2, 4-Triazol.** Sm. 244—245° (*C.* 1901 [1] 936; *B.* 34, 2318).
- 12) **3, 6-Diketo-1-Phenylhexahydro-1, 2, 4, 5-Tetrazin** (*G.* 31 [2] 552 *C.* 1902 [1] 480).
- 13) **7-Nitro-1, 5-Dimethyl-1, 2, 3-Benzotriazol.** Sm. 174,5—175,5° (*J. pr.* [2] 63, 360).
- $C_8H_8O_2Br_2$  12) **3, 6-Dibrom-2, 5-Dioxy-1, 4-Dimethylbenzol.** Sm. 174—175° (*B.* 35, 437 *C.* 1902 [1] 641).
- 13) **3, 5-Dibrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol.** Sm. 149° (*A.* 322, 237 *C.* 1902 [2] 278).
- 14) **2-Dibromnorcaren-7-Carbonsäure.** Sm. 159—160° u. Zers. (*B.* 34, 994).
- $C_8H_8O_2Br_4$  3) **2, 3, 4, 5-Tetrabromnorcaren-7-Carbonsäure.** Sm. 233—235° u. Zers. (*B.* 34, 994).
- $C_8H_8O_3N_2$  \*19) **2-Methylnitrosamidobenzol-1-Carbonsäure.** Sm. 126—127° (*B.* 34, 1644; *C.* 1902 [2] 448).
- \*25) **Amid d. 4-Nitro-1-Methylbenzol-2-Carbonsäure.** Sm. 173—174° (*R.* 20, 171).
- \*30) **Amid d. 2-Nitro-1-Methylbenzol-4-Carbonsäure.** Sm. 166—166,5° (*R.* 20, 158).
- 49) **4-Nitroso-2-Methylamidobenzol-1-Carbonsäure.**  $HCl$  (*C.* 1902 [2] 448).
- 50) **Amid d. 6-Nitro-1-Methylbenzol-2-Carbonsäure.** Sm. 163° (*R.* 20, 172).

- $C_8H_8O_3N_2$  51) Amid d. 2-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 135—136° (*R.* 20, 164).  
 52) Amid d. 4-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 191° (*R.* 20, 164).  
 53) 2-Amid d. Pyridin-1,3-Dicarbonsäure-1,3-Methylbetain. Zers. bei 230° (*M.* 22, 373).  
 54) 4-Nitro-2-Methylphenylamid d. Ameisensäure (*Ph. Ch.* 23, 461). — \*II, 251.  
 55) 2-Nitro-4-Methylphenylamid d. Ameisensäure (*Ph. Ch.* 23, 460). — \*II, 269.  
 56) 3-Nitro-4-Methylphenylamid d. Ameisensäure (*Ph. Ch.* 23, 460). — \*II, 269.
- $C_8H_8O_3Br_2$  2) 4-Methyläther d. 3,5-Dibrom-2,4,6-Trioxy-1-Methylbenzol. Sm. 114° (*M.* 23, 568 *C.* 1902 [2] 738).
- $C_8H_8O_4N_2$  \*1) 3,5-Dinitro-1,2-Dimethylbenzol. Sm. 75—76° (*B.* 35, 632 *C.* 1902 [1] 749).  
 \*24) 5-Nitro-2-Methylamidobenzol-1-Carbonsäure. Sm. 259° (*R.* 21, 275 *C.* 1902 [2] 514).  
 \*54) 5-Amid d. 6-Oxy-2-Methylpyridin-3,5-Dicarbonsäure. Zers. bei 300° (*G.* 31 [1] 172).  
 55) 4,5-Dinitro-1,2-Dimethylbenzol. Sm. 115—116° (*B.* 35, 631 *C.* 1902 [1] 749).  
 56) 4-Nitrophenylamidoessigsäure. Sm. 225° u. Zers. (D.R.P. 88433). — \*II, 226.  
 57) Pyridin-4-Carbonsäure-3-Amidoessigsäure +  $H_2O$ . Zers. bei 160° Ba +  $\frac{1}{2}H_2O$ , Ag +  $H_2O$  (*B.* 35, 2835 *C.* 1902 [2] 995).  
 58) Amid d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 231° (*M.* 22, 946 *C.* 1902 [1] 194).
- $C_8H_8O_4S$  6) 1,2-Dihydrobenzofuran-*p*-Sulfonsäure. Na (*C.* 1902 [2] 370).  
 7) Aldehyd d. 1-Methylbenzol-3-Carbonsäure-*p*-Sulfonsäure. Na, Ca, Ba (D.R.P. 134978 *C.* 1902 [2] 1084).  
 8) 1-Methylester d. Benzol-1-Carbonsäure-2-Sulfinsäure. Sm. 98—99° (*C.* 1901 [2] 961; D.R.P. 130119 *C.* 1902 [1] 960).
- $C_8H_8O_5N_2$  \*6) Äthyläther d. 2,4-Dinitro-1-Oxybenzol. Sm. 86,5° (*B.* 34, 3023).  
 \*13)  $\beta$ -Nitro- $\alpha$ -Oxy- $\alpha$ -(2-Nitrophenyl)äthan (*C. r.* 135, 42 *C.* 1902 [2] 449).  
 15) Methyläther d. 2,3-Dinitro-4-Oxy-1-Methylbenzol. Sm. 126—128° (*B.* 34, 2239).  
 16) 3-Nitro-6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 225—227° (*See.* 81, 116 *C.* 1902 [1] 427).
- $C_8H_8O_5S$  10) 1-Methylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 65° (*M.* 23, 343 *C.* 1902 [2] 201). — \*II, 804.  
 11) 3-Methylester d. Benzol-1-Carbonsäure-3-Sulfonsäure. Sm. 138° (*M.* 23, 342 *C.* 1902 [2] 201). — \*II, 804.
- $C_8H_8O_6N_2$  \*5) Dimethyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 167° (157°) (*C.* 1901 [2] 96; *R.* 21, 288 *C.* 1902 [2] 513).
- $C_8H_8O_6S$  4) Aldehyd d. 3-Oxybenzalmethyläther-1-Carbonsäure-4-Schwefelsäure. K (*Bl.* [3] 25, 49).
- $C_8H_8O_7N_4$  3) 2,4,6-Trinitro-1-Äthylamido-1-Oxybenzol. Sm. 115° (*R.* 21, 260 *C.* 1902 [2] 519).
- $C_8H_8O_8N_6$  \*1) 2,4,6-Trinitro-3-Methylamido-1-Methylnitramidobenzol. Sm. 190° (*R.* 21, 277 *C.* 1902 [2] 515).
- $C_8H_8N_2Cl_2$  2) 1,2-Di(Chlorimido)-4,5-Dimethyl-1,2-Dihydrobenzol. Zers. bei 85° (*B.* 35, 643 *C.* 1902 [1] 750).  
 3) 1,4-Di(Chlorimido)-2,3-Dimethyl-1,4-Dihydrobenzol. Sm. 105,5° (*B.* 35, 649 *C.* 1902 [1] 751).  
 4) 1,4-Di(Chlorimido)-2,5-Dimethyl-1,4-Dihydrobenzol. Sm. 124° (*B.* 35, 649 *C.* 1902 [1] 752).  
 5) 1,4-Di(Chlorimido)-2,6-Dimethyl-1,4-Dihydrobenzol. Sm. 112° (*B.* 35, 649 *C.* 1902 [1] 752).
- $C_8H_8ClJ$  1)  $\alpha$ -Chlor- $\beta$ -Jod- $\alpha$ -Phenyläthan. Sm. 46° (*C.* 1902 [1] 1402).
- $C_8H_8ON$  \*2) 2-Nitroso-1,3-Dimethylbenzol. Sm. 141,5° u. Zers. (*A.* 318, 309; *B.* 34, 3879 *C.* 1902 [1] 116).  
 \*3) 4-Nitroso-1,3-Dimethylbenzol. Sm. 41,5° (*A.* 316, 290; *B.* 34, 3878 *C.* 1902 [1] 116).

- C<sub>8</sub>H<sub>9</sub>ON**
- \*5) **Methyl-2-Amidophenylketon.** Sd. 250—252° (*Ar.* 240, 15 *C.* 1902 [1] 473).
  - \*6) **Methyl-3-Amidophenylketon.** Sm. 96,5°; Sd. 289—290° (*B.* 34, 3522; *Ar.* 240, 13 *C.* 1902 [1] 473).
  - \*12) **β-Oximido-α-Phenyläthan** (*C. r.* 134, 1147 *C.* 1902 [2] 21).
  - \*20) **2-Propionylpyridin** (Aethyl-2-Pyridylketon). Sd. 205°. HCl, (2HCl, PtCl<sub>4</sub>) (*B.* 34, 4242 *C.* 1902 [1] 208).
  - \*21) **Amid d. β-Phenylakrylsäure.** Sm. 147° (*M.* 22, 428).
  - \*26) **Amid d. 1-Methylbenzol-2-Carbonsäure.** Sm. 138° (*R.* 20, 170).
  - \*27) **Amid d. 1-Methylbenzol-4-Carbonsäure.** Sm. 159,5° (*R.* 20, 156).
  - \*29) **Amid d. Δ<sup>3,4</sup>-Norcaradien-7-Carbonsäure** (A. d. Pseudophenyllessigsäure). Sm. 157° (*B.* 34, 991).
  - \*34) **Methylamid d. Benzolcarbonsäure.** Sm. 80—81°; Sd. 291°<sub>765</sub>. Na (*Soc.* 79, 403; *C.* 1902 [2] 792).
  - \*35) **Phenylamid d. Essigsäure** (*C.* 1902 [2] 792).
  - \*43) **2-Nitroso-1,4-Dimethylbenzol.** Sm. 101,5° (*A.* 316, 289; *B.* 34, 3878 *C.* 1902 [1] 116).
  - \*47) **Amid d. 1-Methylbenzol-3-Carbonsäure.** Sm. 93—94° (*R.* 20, 162).
  - 48) **3-Nitroso-1,2-Dimethylbenzol.** Sm. 91—91,5° (*A.* 316, 287).
  - 49) **4-Nitroso-1,2-Dimethylbenzol.** Sm. 44—45° (*A.* 318, 285; *B.* 34, 3880).
  - 50) **6-Acetyl-2-Methylpyridin** (Methyl-6-Methyl-2-Pyridylketon). Sd. 198 bis 200°. (2HCl, PtCl<sub>4</sub>) (*B.* 34, 4253 *C.* 1902 [1] 210).
- C<sub>8</sub>H<sub>9</sub>ON<sub>3</sub>**
- \*1) **Benzylidenamidoharnstoff.** Sm. 214° (*B.* 35, 3042 *C.* 1902 [2] 1107).
  - \*7) **Amid d. 4-Methyldiazobenzol-N-Carbonsäure.** Sm. 141,5—142° (*B.* 35, 1428 *C.* 1902 [1] 1206).
  - \*9) **α-Oximido-α-Phenylazoäthan.** Sm. 117—118° (*B.* 35, 70 *C.* 1902 [1] 403; *B.* 35, 689 *C.* 1902 [1] 726; *B.* 35, 757 *C.* 1902 [1] 726; *B.* 35, 1089 *C.* 1902 [1] 996; *B.* 35, 1897 *C.* 1902 [2] 33; *B.* 35, 3271 *C.* 1902 [2] 1251).
  - 10) **Verbindung** (aus Methylpropylketon, Cyanessigsäureäthylester u. NH<sub>3</sub>). Sm. 196—197° (*C.* 1897 [1] 904). — **I**, 677.
- C<sub>8</sub>H<sub>9</sub>OBr**
- 7) **2-Brom-4-Oxy-1,3-Dimethylbenzol.** Sm. 68° (*B.* 34, 2255). — **II**, 444.
  - 8) **5-Brom-4-Oxy-1,3-Dimethylbenzol.** Sm. 72° (*B.* 34, 2256). — **II**, 444.
  - 9) **6-Brom-4-Oxy-1,3-Dimethylbenzol.** Sm. 72° (*B.* 34, 2254). — **II**, 444.
- C<sub>8</sub>H<sub>9</sub>OAs**
- 1) **2,4-Dimethylphenylarsenoxyd.** Sm. bei 220° (*A.* 320, 332 *C.* 1902 [1] 922).
  - 2) **2,5-Dimethylphenylarsenoxyd.** Sm. 165° (*A.* 320, 337 *C.* 1902 [1] 922).
- C<sub>8</sub>H<sub>9</sub>OB**
- 1) **2,4-Dimethylphenylboroxyd.** Sm. 202° (*A.* 315, 21).
  - 2) **2,5-Dimethylphenylboroxyd.** Sm. 176° (*A.* 315, 24).
  - 3) **3,4-Dimethylphenylboroxyd.** Sm. 226° (*A.* 315, 25).
- C<sub>8</sub>H<sub>9</sub>O<sub>2</sub>N**
- \*2) **2-Nitro-1-Aethylbenzol.** Sm. —23°; Sd. 223—224° (*J. pr.* [2] 66, 162 *C.* 1902 [2] 936).
  - \*4) **4-Nitro-1-Aethylbenzol.** Sm. —32°; Sd. 241—242° (*J. pr.* [2] 66, 162 *C.* 1902 [2] 936).
  - \*15) **2-Acetylamido-1-Oxybenzol.** Sm. 202—203° (*B.* 35, 112 *C.* 1902 [1] 414).
  - \*18) **Methyl-5-Amido-2-Oxyphenylketon.** Sm. 105°. HCl (*B.* 34, 125).
  - \*27) **4-Methyläther d. anti-4-Oxybenzaldoxim** (*B.* 34, 2024; 35, 242).
  - \*28) **4-Methyläther d. syn-4-Oxybenzaldoxim** (*B.* 35, 242).
  - \*39) **Phenylamidoessigsäure** (*A.* 319, 61; *B.* 35, 579 *C.* 1902 [1] 581; D.R.P. 135332 *C.* 1902 [2] 1086).
  - \*44) **2-Methylamidobenzol-1-Carbonsäure.** Sm. 177°. HCl (*C.* 1902 [2] 448).
  - \*52) **4-Amido-1-Methylbenzol-3-Carbonsäure.** Sm. 172,5° (*B.* 34, 3375).
  - \*64) **Methylester d. 2-Amidobenzol-1-Carbonsäure.** Sm. 24°. 2HCl, Formiat (*J. pr.* [2] 63, 246; [2] 64, 81; *C.* 1901 [1] 1126; *B.* 34, 296; *B.* 35, 24 *C.* 1902 [1] 421; *B.* 35, 2355 *C.* 1902 [2] 483).
  - \*73) **Amid d. Oxyessigphenyläthersäure.** Sm. 101° (*B.* 34, 1836).
  - 90) **6-Nitroso-3-Oxy-1,2-Dimethylbenzol.** Sm. 75° (*B.* 34, 948).

- $C_8H_9O_2N$  91) 2-Nitroso-5-Oxy-1,3-Dimethylbenzol. Sm. 175° (*B.* 34, 948).  
 92) Methyläther d. 4-Formylamido-1-Oxybenzol. Sm. 81° (D.R.P. 49 075). — \*II, 401.  
 93)  $\alpha$ -Oximido- $\alpha$ -[4-Oxyphenyl]äthan. Sm. 143° (*C. r.* 133, 743).  
 94) Acetylphenylhydroxylamin. Sm. 67—67,5° (*B.* 35, 1883 *C.* 1902 [2] 33).  
 95)  $\beta$ -[2-Pyridyl]propionsäure. Sm. 141°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>) (*Ar.* 240, 185 *C.* 1902 [1] 1232).  
 96) 3-Aethylpyridin-4-Carbonsäure. Sm. 216—217° (*B.* 35, 1353 *C.* 1902 [1] 1111).  
 97) 4-Aethylpyridin-3-Carbonsäure. Sm. 136—136,5° (HCl, AuCl<sub>3</sub>) (*B.* 35, 1364 *C.* 1902 [1] 1112).  
 98) Betain d.  $\alpha$ -Pyridylumpropionsäure. 2 + HBr (*C.* 1901 [1] 744).  
 99) Aethylbetain d. Pyridin-4-Carbonsäure. Sm. 241° u. Zers. (*Ar.* 240, 361 *C.* 1902 [2] 648).  
 100) Aethylester d. Pyridin-4-Carbonsäure. Sd. 218°. Sd. 219—220°. HCl (2HCl, PtCl<sub>4</sub>) (*Ar.* 240, 360 *C.* 1902 [2] 648; *B.* 34, 4248 *C.* 1902 [1] 209).  
 101) Amid d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 112°) *M.* 22, 434).
- $C_8H_9O_2N_2$  \*4) Phenylbiuret (Phenylamidoformylharnstoff). Sm. 150° u. Zers. (156 bis 156,5°) (*Soc.* 79, 843; *Am.* 26, 254).  
 \*13) Phenylhydrazid d. Oxaminsäure. Sm. 235° (*B.* 35, 3686 *C.* 1902 [2] 1451).  
 17) 2-Oxy-1-Semicarbazonomethylbenzol. Sm. 231—232° u. Zers. (229° u. Zers.) (*B.* 34, 2098; *B.* 34, 4299 *C.* 1902 [1] 304).  
 18) 3-Oxy-1-Semicarbazonomethylbenzol. Sm. 198° (*B.* 34, 2097).  
 19) 4-Oxy-1-Semicarbazonomethylbenzol. Sm. 223—225° (*B.* 34, 2098).  
 20)  $\beta$ -Nitromethylen- $\alpha$ -Methyl- $\alpha$ -Phenylhydrazin. Sm. 91—92° (*B.* 34, 590).  
 21)  $\beta$ -Acetyl- $\alpha$ -Nitroso- $\alpha$ -Phenylhydrazin. Sm. 63° u. Zers. (*B.* 35, 1902 *C.* 1902 [2] 42).  
 22) Methyläther d.  $\alpha$ -Oxynitrosamido- $\alpha$ -Phenylazomethan. Sm. 54,5° (*B.* 34, 589).
- $C_8H_9O_2As$  1) Methyläther d. 4-Oxyphenylarsenoxyd. Sm. 105° (*A.* 320, 300 *C.* 1902 [1] 920).
- $C_8H_9O_3N$  \*2) 5-Nitro-4-Oxy-1,3-Dimethylbenzol. Sm. 73° (*A.* 319, 99).  
 \*9) Methyläther d. 4-Nitro-3-Oxy-1-Methylbenzol. Sm. 60° (*B.* 35, 1259 *C.* 1902 [1] 1061).  
 \*33) 4-Methoxybenzhydroxamsäure. Sm. 157° (166°) (*B.* 34, 2025; *G.* 31, [2] 30, 90).  
 \*57) Acetat d. 2-[ $\alpha$ -Oximidoäthyl]furan. Sm. 96° (*B.* 34, 1073).  
 65) Methyläther d. 4-Nitro-2-Oxy-1-Methylbenzol. Sm. 73° (74°) (*B.* 23, 3638; 34, 2241).  
 66) Methyläther d. 4-Oxyphenylnitromethan. Fl. (*B.* 34, 2027).  
 67) 4-Oxy-3-Oximidomethyl-1-Oxymethylbenzol. Sm. 120—121° (*B.* 35, 127 *C.* 1902 [1] 465).  
 68) 4,6-Dioxy-2-Methylbenzaloxim. Sm. 200° (*B.* 34, 1444).  
 69) 5-Amido-2-Oxybenzoldimethyläther-1-Carbonsäure. HCl, (2HCl, PtCl<sub>4</sub>) (D.R.P. 71 258). — \*II, 898.  
 70) 6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 252°. K (*Soc.* 81, 115 *C.* 1902 [1] 427; *B.* 35, 2394 *C.* 1902 [2] 455).  
 71) 6-Oxy-2,5-Dimethylpyridin-3-Carbonsäure. Sm. 300—305° u. Zers. (*B.* 34, 3696 *C.* 1902 [1] 47).  
*C.* 43,1 — H 4,0 — O 21,5 — N 31,4 — M. G. 223.
- $C_8H_9O_3N_2$  1) 2,4-Nitroamidobenzylidenamidoharnstoff. Zers. oberh. 300° (*B.* 35, 2715 *C.* 1902 [2] 638).
- $C_8H_9O_3Br$  2) 5-Brom-2,4,6-Trioxo-1,3-Dimethylbenzol (*M.* 21, 503). — \*II, 622.
- $C_8H_9O_4N$  \*13) Biliverdinsäure. Sm. 113—114°. Ag<sub>2</sub> (*B.* 35, 1271 *C.* 1902 [1] 1168).  
 \*14)  $\beta$ -Imid d.  $\beta$ -Penten- $\beta\gamma\epsilon$ -Tricarbonsäure (Imid d. dreibas. Hämatinsäure). Sm. 113,5—114,5°. NH<sub>4</sub>, Ca, Zn, Cd, Hg, Ag, Ag<sub>2</sub> (*A.* 315, 186; *B.* 35, 2948).  
 29) Methyläther d. 3-Nitro-4-Oxy-1-Oxymethylbenzol. Sm. 69° (*B.* 34, 2459).



- $C_8H_5O_4N$  30) Dimethyläther d. 4-Nitro-1,3-Dioxybenzol. Sm. 72—73° (C. 1901 [1] 739; 1901 [2] 96).
- $C_8H_5O_4N_3$  \* 17) 4,6-Dinitro-2-Amido-1,3-Dimethylbenzol. Sm. 174—175° (B. 35, 629 C. 1902 [1] 748).
- $C_8H_5O_5N$  2) Dimethylester d.  $\alpha$ -Cyan- $\beta$ -Oxypropen- $\alpha\gamma$ -Dicarbonsäure. Sm. 64°. Cu, Ag (C. 1901 [1] 883).
- $C_8H_5O_5Br$  1)  $\alpha$ -Äthylester d.  $\beta$ -Brom- $\alpha$ -Keto- $\beta$ -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 76 bis 77°. K, Ba (R. 21, 205 C. 1902 [2] 510).
- $C_8H_5O_5As$  2) 2- oder 4-Methylphenylarsinsäure-4- oder 2-Carbonsäure. Zers. oberh. 300°. Ag<sub>2</sub> (A. 320, 335 C. 1902 [1] 922).
- 3) 3-Methylphenylarsinsäure-6-Carbonsäure. Sm. 208°. Ag<sub>2</sub> (A. 320, 339 C. 1902 [1] 923).
- $C_8H_5NCl_2$  6)  $\beta$ -Dichlor-2-Methylamido-1-Methylbenzol. Sd. 258—259°. (2HCl, PtCl<sub>4</sub>) (J. pr. [2] 60, 83). — \*II, 247.
- $C_8H_5NS_2$  \* 1) Benzylamidodithioameisensäure. Benzylaminsalz (B. 35, 822).
- \* 2) 2-Methylphenylamidodithioameisensäure. NH<sub>4</sub> (J. pr. [2] 65, 370 C. 1902 [1] 1328).
- \* 3) 3-Methylphenylamidodithioameisensäure. NH<sub>4</sub> (J. pr. [2] 65, 377 C. 1902 [1] 1329).
- 6) Methylphenylamidodithioameisensäure. NH<sub>4</sub> (Bl. [3] 27, 808 C. 1902 [2] 695).
- 7) Benzylester d. Amidodithioameisensäure. Sm. 91° (B. 35, 3381 C. 1902 [2] 1363).
- $C_8H_5N_3S$  2)  $\alpha$ -Amidomerkaptomethylen- $\beta$ -Benzylidenhydrazin (Benzylidenamidothioharnstoff). Sm. 159—160° (Soc. 79, 57; B. 35, 2603 C. 1902 [2] 572).
- $C_8H_5N_4Cl$  1)  $\beta$ -Chlor-7-Amido-1,5-Dimethyl-1,2,3-Benztriazol. Sm. 189—190° (J. pr. [2] 63, 361).
- $C_8H_5Cl_2J$  2) 1-Äthylbenzol-4-Jodidechlorid. Sm. 90° (J. pr. [2] 65, 568 C. 1902 [2] 351).
- $C_8H_5Cl_2As$  1) 2,4-Dimethylphenyldichlorarsin. Sm. 42—43°; Sd. 278° (A. 320, 330 C. 1902 [1] 922).
- 2) 2,5-Dimethylphenyldichlorarsin. Sm. 63°; Sd. 285° (A. 320, 336 C. 1902 [1] 922).
- $C_8H_5Cl_2B$  1) Dichlorid d. 2,4-Dimethylphenylborsäure (m-Xylylborchlorid). Sd. 218° (A. 315, 20).
- 2) Dichlorid d. 2,5-Dimethylphenylborsäure. Sd. 205° (A. 315, 23).
- 3) Dichlorid d. 3,4-Dimethylphenylborsäure. Sm. 0°; Sd. 212° (A. 315, 24).
- $C_8H_5Cl_4As$  1) 2,4-Dimethylphenylarsentetrachlorid (A. 320, 331 C. 1902 [1] 922).
- $C_8H_5Br_2B$  1) Dibromid d. 2,4-Dimethylphenylborsäure. Sd. 125°<sub>15</sub> (A. 315, 32).
- $C_8H_5J_2As$  1) 2,5-Dimethylphenyldijodarsin. Sm. 45° (A. 320, 337 C. 1902 [1] 922).
- $C_8H_5SAs$  1) 2,4-Dimethylphenylarsensulfid. Sm. 169° (A. 320, 332 C. 1902 [1] 922).
- 2) 2,5-Dimethylphenylarsensulfid. Sm. 188° (A. 320, 338 C. 1902 [1] 923).
- $C_8H_5S_2As$  1) 2,5-Dimethylphenylarsendisulfid. Sm. 95° (A. 320, 338 C. 1902 [1] 923).
- $C_8H_{10}ON_2$  \* 1) Äthylnitrosamidobenzol. Sd. 133—136°<sub>16</sub> (A. 318, 140).
- \* 3) 4-Nitroso-1-Dimethylamidobenzol. Pikrat (Am. 28, 114 C. 1902 [2] 791).
- \* 43) Methyläther d.  $\alpha$ -Imido- $\alpha$ -Phenylamido- $\alpha$ -Oxymethan. Sm. 46,5°. HCl, H<sub>2</sub>SO<sub>4</sub> (Am. 26, 229).
- 48) 2-Amido-1-Acetylamidobenzol. Sm. 145° (G. 31 [1] 22).
- 49) Methyl-3,5-Diamidophenylketon. Sm. 133—134° (J. pr. [2] 65, 293 C. 1902 [1] 1217).
- 50) Phenylamid d. Amidoessigsäure +  $\frac{1}{2}$  H<sub>2</sub>O. Sm. 62° (D.R.P. 59 121, 59 874). — \*II, 170.
- 51) 4-Amidophenylamid d. Essigsäure (D.R.P. 127 466 C. 1902 [1] 154).
- 52) Hydrazid d. Phenylessigsäure. Sm. 116°. HCl (J. pr. [2] 64, 316).
- $C_8H_5OS_3$  1) Verbindung (aus Trithiodibutolaktone). Sm. 134,5° (B. 34, 3401).
- $C_8H_{10}O_2N_2$  \* 20) 4-Nitro-3-Amido-1,2-Dimethylbenzol. Sm. 118—119° (B. 34, 2244).
- \* 21) 6-Nitro-3-Amido-1,2-Dimethylbenzol. Sm. 114° (B. 34, 2245).
- \* 22) 3-Nitro-4-Amido-1,2-Dimethylbenzol. Sm. 65—66° (B. 34, 2249).

- $C_8H_{10}O_2N_2$  \*23) **6-Nitro-4-Amido-1,2-Dimethylbenzol**. Sm. 74—75° (B. 34, 2250; B. 35, 632 C. 1902 [1] 749).
- \*25) **2-Nitro-4-Amido-1,3-Dimethylbenzol**. Sm. 81—82° (B. 34, 2260).
- \*27) **6-Nitro-4-Amido-1,3-Dimethylbenzol**. Sm. 123° (B. 35, 3759 C. 1902 [2] 1453).
- \*58) **Aethylester d. 3-Pyridylamidoameisensäure**. Sm. 90° (Ar. 240, 355 C. 1902 [2] 648).
- 67) **5-Nitro-3-Amido-1,2-Dimethylbenzol**. Sm. 111—112° (B. 34, 2245). — \*II, 308.
- 68) **5-Nitro-4-Amido-1,2-Dimethylbenzol**. Sm. 139—140° (B. 34, 2248; B. 35, 631 C. 1902 [1] 749). — \*II, 308.
- 69) **6-Nitro-3-Amidomethyl-1-Methylbenzol**. Sd. 169—170°<sub>12</sub> (D.R.P. 134 979 C. 1902 [2] 1084).
- 70) **4-Nitro-3-Methylamido-1-Methylbenzol**. Sm. 83° (B. 35, 1260 C. 1902 [1] 1061).
- 71) **5-Nitroso-2-Methylamido-4-Oxy-1-Methylbenzol**. Sm. 190° (D.R.P. 82 627). — \*II, 438.
- 72)  **$\alpha$ -Oxy- $\beta$ -Methyl- $\alpha$ -Phenylharnstoff**. Sm. 121°. HCl (G. 31 [2] 346 C. 1902 [1] 32).
- 73) **uns-Methylphenylhydrazin-2-Carbonsäure**. Sm. 120° (J. pr. [2] 55, 128). — \*II, 795.
- 74) **Aethylester d. 2-Pyridylamidoameisensäure**. Sm. 105° (Ar. 240, 350 C. 1902 [2] 647).
- 75) **Aethylester d. 4-Pyridylamidoameisensäure**. Sm. 129° (wasserfrei) (Ar. 240, 364 C. 1902 [2] 649).
- 76) **Amid d. 6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure + H<sub>2</sub>O**. Sm. 224° (wasserfrei) (227°). H<sub>2</sub>SO<sub>4</sub> (B. 35, 2395 C. 1902 [2] 455; Soc. 81, 114 C. 1902 [1] 427).
- 77) **Amid d. 2-Keto-4,6-Dimethyl-1,2-Dihydropyridin-5-Carbonsäure** (B. 35, 584).
- 78) **Hydrazid d.  $\alpha$ -Oxy- $\alpha$ -Phenylelessigsäure**. Sm. 132°. HCl, Na (B. 34, 2796).
- 79) **Isopropylidenhydrazid d. Furan-2-Carbonsäure**. Sm. 72° (J. pr. [2] 65, 29 C. 1902 [1] 460).
- 80) **Verbindung (aus Pilocarpin)**. Sm. 153° u. Zers. (B. 35, 2459 C. 1902 [2] 527).
- $C_8H_{10}O_2N_4$  \*8) **Kaffein**. Salze siehe (C. 1901 [1] 613; 1902 [1] 1199).
- 18) **2,6-Diketo-8-Isopropylpurin**. Sm. 380° (C. 1901 [2] 72).
- 19) **2,6-Diketo-1,3,8-Trimethylpurin**. Sm. 325° u. Zers. (C. 1901 [2] 72).
- 20) **2,6-Diketo-3,7,8-Trimethylpurin**. Sm. 302—303° (D.R.P. 128 212 C. 1902 [1] 549).
- $C_8H_{10}O_2N_3$  C 38,4 — H 4,0 — O 12,8 — N 44,8 — M. G. 250.
- 1) **Diacetylderivat d. Guanazoguanazol** (G. 31 [1] 504).
- $C_8H_{10}O_2Cl_2$  1) **5-Chlor-6-Chloroxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol**. Sm. 112° (A. 322, 256 C. 1902 [2] 271).
- $C_8H_{10}O_2Br_2$  3) **5-Brom-6-Bromoxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol**. Sm. 144° (A. 322, 257 C. 1902 [2] 271).
- $C_8H_{10}O_2S$  11) **1,2-Dimethylbenzol-3-Sulfinsäure**. Sm. 105° (B. 34, 1260).
- 12) **1,3-Dimethylbenzol-5-Sulfinsäure**. Sm. 75—76° (B. 34, 1260).
- $C_8H_{10}O_3N_2$  \*1) **Methyläther d. 6-Nitro-3-Amido-4-Oxy-1-Methylbenzol** (C. 1901 [2] 1374; D.R.P. 126 676 C. 1902 [1] 85).
- 17) **5-Propionyl-4-Methylpyrazol-3-Carbonsäure?** Sm. 191° (J. pr. [2] 65, 392 C. 1902 [1] 1365).
- $C_8H_{10}O_3N_4$  6) **2-Nitro-4-Methylphenylamidoharnstoff**. Sm. 201° u. Zers. (Soc. 79, 809).
- $C_8H_{10}O_3S$  \*3) **1-Aethylbenzol-4-Sulfonsäure**. Na (B. 34, 1261).
- \*7) **1,3-Dimethylbenzol-4-Sulfonsäure + 2H<sub>2</sub>O**. Sm. 59,8° (B. 34, 1351).
- \*8) **1,4-Dimethylbenzol-2-Sulfonsäure + 2H<sub>2</sub>O**. Sm. 86° (B. 34, 1352).
- 17) **Oxymethyl-4-Methylphenylsulfon**. Sm. 90° (J. pr. [2] 63, 168).
- 18) **Methyläther d. Methyl-2-Oxyphenylsulfon**. Sm. 84° (J. pr. [2] 66, 152 C. 1902 [2] 797).
- 19) **1,5-Dimethylbenzol-5-Sulfonsäure**. K +  $\frac{1}{2}$ H<sub>2</sub>O, Ba + 2H<sub>2</sub>O (C. 1901 [1] 385; B. 34, 1260).
- $C_8H_{10}O_4N_2$  5) **2,4,5,6-Tetraketo-1,3-Diäthylhexahydro-1,3-Diazin (Diäthylalloxan)** (B. 30, 1820). — \*I, 786.

- C<sub>8</sub>H<sub>10</sub>O<sub>4</sub>N<sub>4</sub>** 3) 4, 6-Dinitro-1, 3-Di[Methylamido]benzol. Sm. noch nicht bei 280° (*R.* 21, 290 *C.* 1902 [2] 513).
- 4) 5, 6-Di[Acetylamido]-2, 4-Diketo-1, 2, 3, 4-Tetrahydro-1, 3-Diazin (Diacetyldiamidouracil). Zers. oberhalb 300° (*D.R.P.* 126797 *C.* 1902 [1] 81).
- C<sub>8</sub>H<sub>10</sub>O<sub>4</sub>Cl<sub>2</sub>** 2)  $\alpha$ ,  $\gamma$ -Lakton d.  $\delta$ ,  $\rho$ -Dichlor- $\gamma$ -Oxybutan- $\alpha$ - $\alpha$ -Dicarbonsäuremonoäthylester. Sm. 55° (*B.* 34, 1979).
- 3) isom. Lakton d.  $\delta$ ,  $\rho$ -Dichlor- $\gamma$ -Oxybutan- $\alpha$ - $\alpha$ -Dicarbonsäuremonoäthylester. Sd. 193°<sub>12</sub> (*B.* 34, 1980).
- C<sub>8</sub>H<sub>10</sub>O<sub>4</sub>S** \*7) 4-Oxy-1, 3-Dimethylbenzol-5-Sulfonsäure. Na + H<sub>2</sub>O, K, Ba + 2H<sub>2</sub>O (*B.* 35, 3760 *C.* 1902 [2] 1453).
- C<sub>8</sub>H<sub>10</sub>O<sub>5</sub>S** 3) 1, 2-Dioxybenzol-1-Aethyläther-3-Sulfonsäure. Na (*D.R.P.* 132607 *C.* 1902 [2] 315).
- 4) Methylester d. 2-Methoxyphenylschwefelsäure. Sd. 208° (*D.R.P.* 75456). — \*II, 548.
- C<sub>8</sub>H<sub>10</sub>O<sub>6</sub>N<sub>2</sub>** \*2) Diäthylester d. 1, 2, 3, 6-Dioxidiazin-4, 5-Dicarbonsäure. Sd. 161°<sub>10</sub> (*C.* 1901 [2] 274; *C. r.* 133, 103).
- 3) Diäthylester d. Bisanhidronitroessigsäure. Sd. 233—234° (*B.* 34, 868, 876).
- C<sub>8</sub>H<sub>10</sub>NCl** \*5) 3-Chlor-1-Dimethylamidobenzol. Sd. 232° (*B.* 35, 3542 *C.* 1902 [2] 1503).
- 14) 5-Chlor-2-Methylamido-1-Methylbenzol. Sd. 245—246°<sub>740</sub> (*D.R.P.* 105103 *C.* 1900 [1] 238). — \*II, 247.
- C<sub>8</sub>H<sub>10</sub>NBr** \*5) 5-Brom-2-Amido-1, 3-Dimethylbenzol. Sm. 50—51° (*B.* 33, 1974; 34, 2262).
- \*6) 5-Brom-4-Amido-1, 3-Dimethylbenzol. Sm. 47—48° (*B.* 34, 2255).
- \*8) 4-Brom-2-Amido-1, 3-Dimethylbenzol. Sm. 21,5°, Sd. 146—147°<sub>15</sub> (*B.* 34, 2261).
- 10) 2-Brom-4-Amido-1, 3-Dimethylbenzol. Sm. 47—48° (*B.* 34, 2255). — \*II, 311.
- 11) 6-Brom-4-Amido-1, 3-Dimethylbenzol. Sm. 99—100° (*B.* 3, 225; 34, 2253). — II, 542; \*II, 310.
- C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>S** 12) Methylbromomethylphenylamin. Sm. oberh. 250° (*C.* 1902 [2] 1174).
- \*1) s-Methylphenylthioharnstoff (*C.* 1902 [1] 20).
- \*3) 2-Methylphenylthioharnstoff. Sm. 155° (*J. pr.* [2] 65, 371 *C.* 1902 [1] 1328).
- \*4) 3-Methylphenylthioharnstoff. Sm. 110—111° (*J. pr.* [2] 65, 377 *C.* 1902 [1] 1329).
- \*5) 4-Methylphenylthioharnstoff. Sm. 182° (*J. pr.* [2] 65, 371 *C.* 1902 [1] 1329).
- C<sub>8</sub>H<sub>10</sub>N<sub>3</sub>Cl** 1)  $\alpha$ -Imido- $\alpha$ -[4-Chlorphenylhydrazido]äthan (4-Methyl-2-[4-Chlorphenyl]-R-Methylentriazan). HCl (*B.* 34, 2350; *B.* 35, 3272 *C.* 1902 [2] 1251).
- 2) Diazochlorid (aus 4-Amido-1-Dimethylamidobenzol) (*B.* 35, 896 *C.* 1902 [1] 867).
- C<sub>8</sub>H<sub>10</sub>J<sub>2</sub>S<sub>2</sub>** 1) Trithiodibutolaktondijodid. Sm. 136° u. Zers. (*B.* 34, 3396).
- C<sub>8</sub>H<sub>11</sub>ON** \*5) 2-Dimethylamido-1-Oxybenzol (*B.* 34, 22).
- \*23) Phenyläther d.  $\beta$ -Amido- $\alpha$ -Oxyäthan. HBr (*B.* 34, 1159).
- \*24) Dimethylphenylaminooxyd (*B.* 34, 12; *B.* 35, 1082 *C.* 1902 [1] 915).
- \*26) 2, 5-Dimethylphenylhydroxylamin. Sm. 91,5° (*A.* 316, 289).
- \*27) 2, 6-Dimethylphenylhydroxylamin. Sm. 98,5° (*A.* 316, 295).
- \*30) 3-Acetyl-2, 4-Dimethylpyrrol. Sm. 137° (*B.* 35, 3007 *C.* 1902 [2] 1121).
- \*40) 4-Keto-1, 2, 6-Trimethyl-1, 4-Dihydropyridin + 3H<sub>2</sub>O. Sm. 111° (245° wasserfrei) (*B.* 35, 3158 *C.* 1902 [2] 1214).
- \*44) 4-Dimethylamido-1-Oxybenzol. Sm. 76—77° (*B.* 34, 21).
- 48) 2-Amido-5-Oxy-1, 3-Dimethylbenzol. Sm. 180,5—181°. H<sub>2</sub>SO<sub>4</sub> (*A.* 316, 300).
- 49) 3-Aethylamido-1-Oxybenzol. Sm. 62°; Sd. 176°<sub>12</sub> (*D.R.P.* 48151, 76419, 82765; *J. pr.* [2] 63, 423). — \*II, 394.
- 50) 2-Methylamido-4-Oxy-1-Methylbenzol. Sm. 108° (*D.R.P.* 69596). — \*II, 437.
- 51) 4-Methylamido-1-Oxymethylbenzol. Sm. 210° (*D.R.P.* 97710 *C.* 1898 [2] 694). — \*II, 646.

- $C_8H_{11}ON$  52) 2,3-Dimethylphenylhydroxylamin. Sm.  $74^\circ$  (A. 316, 287).  
 53) 3,4-Dimethylphenylhydroxylamin. Sm.  $101^\circ$  (A. 316, 284).  
 54) 2- $\beta$ -Oxyisopropylpyridin. Sd.  $128-131^\circ_{17}$ , (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 24, 1673; B. 35, 1346 C. 1902 [1] 1109).
- $C_8H_{11}ON_3$  \* 8) 4-Methylphenylamidoharnstoff. Sm.  $190-191^\circ$  (B. 35, 1428 C. 1902 [1] 1206).  
 \* 18)  $\alpha$ -Oximido- $\alpha$ -Phenylhydrazonäthan. Sm.  $128^\circ$  (B. 35, 72 C. 1902 [1] 403; B. 35, 689 C. 1902 [1] 726; B. 35, 757 C. 1902 [1] 726; B. 35, 3271 C. 1902 [2] 1251).
- $C_8H_{11}OCl$  1) Chlorid d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd.  $88-90^\circ_{17}$  (C. 1901 [1] 1149; D.R.P. 133631 C. 1902 [2] 553).  
 2) Chlorid d. 2,3,4,5-Tetrahydro-R-Hepten-1-Carbonsäure. Sd. 88 bis  $90^\circ_{13}$  (A. 317, 237).
- $C_8H_{11}O_2N$  \* 2) 3-Methyläther d. 4-Amido-3,5-Dioxy-1-Methylbenzol (M. 22, 242).  
 22) 2-[ $\beta\beta$ -Dioxyisopropyl]pyridin. (2HCl, PtCl<sub>4</sub>), Pikrat (B. 35, 1347 C. 1902 [1] 1109).  
 23)  $\alpha$ -Cyan- $\alpha$ -Penten- $\beta$ -Methylcarbonsäure (C. 1902 [1] 700).  
 24) 2,5-Dimethylpyrrol-1-Methylcarbonsäure. Sm.  $130-131^\circ$  (B. 34, 439).
- $C_8H_{11}O_2N_3$  8) 6-Nitro-2,4-Diamido-1,3-Dimethylbenzol. Sm.  $151-152^\circ$  (B. 35, 630 C. 1902 [1] 748).  
 9) 5-Nitro-3-Amido-4-Methylamido-1-Methylbenzol. Sm.  $131,5-132,5^\circ$  (J. pr. [2] 63, 360).
- $C_8H_{11}O_2Cl$  1) 5-Chlor-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol + H<sub>2</sub>O. Sm.  $161^\circ$  (wasserfrei) (A. 322, 246 C. 1902 [2] 270).
- $C_8H_{11}O_2Br$  \* 2) 5-Brom-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol + H<sub>2</sub>O. Sm.  $175^\circ$  u. Zers. (A. 322, 248 C. 1902 [2] 270).
- $C_8H_{11}O_2J$  2) 5-Jod-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol + H<sub>2</sub>O. Sm.  $160-162^\circ$  u. Zers. (A. 322, 254 C. 1902 [2] 270).
- $C_8H_{11}O_2As$  1) Dimethylester d. Phenylarsinigesäure. Sd.  $220^\circ$  (A. 320, 286 C. 1902 [1] 919).
- $C_8H_{11}O_2B$  1) 2,4-Dimethylphenylborsäure. Ag (A. 315, 22).  
 2) 2,5-Dimethylphenylborsäure. Sm.  $186^\circ$  (A. 315, 24).  
 3) 3,4-Dimethylphenylborsäure. Sm.  $190,5^\circ$  (A. 315, 25).
- $C_8H_{11}O_3N$  \* 20) Aethylester d.  $\alpha$ -Cyan- $\beta$ -Oxyäthenäthyläther- $\alpha$ -Carbonsäure. Sm.  $52-53^\circ$ ; Sd.  $190-191^\circ_{39}$  (B. [3] 25, 20).  
 22) 3,5-Dimethylisoxazol-4-[Aethyl- $\alpha$ -Carbonsäure]. Sm.  $106^\circ$  (C. r. 134, 180 C. 1902 [1] 457).  
 23) 3,5-Dimethylisoxazol-4-[Aethyl- $\beta$ -Carbonsäure]. Sm.  $109-110^\circ$  (C. 1902 [2] 346).
- $C_8H_{11}O_3N_3$  4) Säure (aus Bisäthanhydronitroessigsäureäthylester). Sm.  $162^\circ$  u. Zers. Piperidinsalz (C. r. 133, 104).  
 5)  $\alpha$ -Amid d.  $\alpha$ -Cyan- $\beta$ -Amidopropen- $\alpha\gamma$ -Dicarbonsäure- $\gamma$ -Aethylester. Sm.  $195^\circ$  (C. 1901 [1] 883).
- $C_8H_{11}O_3As$  1) 2,4-Dimethylphenylarsinsäure. Sm.  $210^\circ$  (A. 320, 333 C. 1902 [1] 922).  
 2) 2,5-Dimethylphenylarsinsäure. Sm.  $223^\circ$  (A. 320, 338 C. 1902 [1] 923).  
 3) Dimethylester d. Phenylarsinsäure. Sd.  $188^\circ_{95}$  (A. 320, 294 C. 1902 [1] 919).
- $C_8H_{11}O_4N$  9) Pilopininsäure. Sm.  $98^\circ$ . Ba (Soc. 79, 589).  
 10)  $\gamma\delta$ -Imid d. mal. Butan- $\alpha\gamma\delta$ -Tricarbonsäure. Ag<sub>2</sub> (B. 35, 2951 C. 1902 [2] 1051).
- $C_8H_{11}O_4N_3$  2) 5-Oximido-2,4,6-Triketo-1,3-Diäthylhexahydro-1,3-Diazin + H<sub>2</sub>O (Diäthylviolarsäure). Sm.  $90^\circ$  ( $107^\circ$  wasserfrei). Salze siehe (B. 30, 1816). — \* I, 768.
- $C_8H_{11}O_4Cl$  4)  $\alpha\gamma$ -Lakton d.  $\delta$ -Chlor- $\gamma$ -Oxybutan- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sd.  $181^\circ_{12}$ . Na (B. 34, 1977).
- $C_8H_{11}O_4Br$  \* 4)  $\beta\delta$ -Lakton d.  $\gamma$ -Brom- $\delta$ -Oxy- $\gamma$ -Methylpentan- $\alpha\beta$ -Dicarbonsäure. Sm.  $161^\circ$  (A. 321, 109 C. 1902 [1] 980).  
 10)  $\gamma$ -Brom- $\beta$ -Methyl- $\beta$ -Penten- $\epsilon\epsilon$ -Dicarbonsäure. Sm.  $157-158^\circ$  (C. 1902 [1] 27).  
 11)  $\beta$ -Brom- $\gamma$ -Methyl- $\beta$ -Pentan- $\epsilon\epsilon$ -Dicarbonsäure. Sm.  $115-117^\circ$  (C. 1902 [1] 27).  
 12)  $\alpha\gamma$ -Lakton d.  $\beta$ -Brom- $\gamma$ -Oxy- $\gamma$ -Methylpentan- $\alpha\beta$ -Dicarbonsäure. Sm.  $163^\circ$  u. Zers. (A. 321, 119 C. 1902 [1] 981).

- $C_8H_{11}O_4As$  1) 4-Aethoxyphenylarsinsäure. Sm. 209—210° (A. 320, 300 C. 1902 [1] 920).
- $C_8H_{11}N_3S$  7)  $\alpha$ -Amido- $\beta$ -[4-Methylphenyl]thioharnstoff. Sm. 134—135° (B. 35, 1714 C. 1902 [2] 29).
- $C_8H_{12}ON_2$  21) Methyläther d. 2,3-Diamido-4-Oxy-1-Methylbenzol. Sm. 72—73° (B. 34, 2239).
- 22)  $\beta$ -Amidoäthyläther d. 4-Amido-1-Oxybenzol (D.R.P. 88502). — \*II, 398.
- 23) Aethyläther d. 2-Oxy-4,6-Dimethyl-1,3-Diazin. Sd. 220,1°<sub>784</sub>. HCl, + HgCl<sub>2</sub> (B. 34, 3959 C. 1902 [1] 127).
- $C_8H_{12}OS_3$  1) Merkaptothionsäure (aus Trithiodibutolakton). Fl. (B. 34, 3399).
- $C_8H_{12}O_3N_2$  13) Dimethyläther d. 2,6-Dioxy-4,5-Dimethyl-1,3-Diazin. Sm. 39 bis 40°; Sd. 229° (B. 34, 2828).
- 14) 2,4-Diketo-3,6-Dimethyl-1-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 110—112° (A. 323, 170 C. 1902 [2] 890).
- 15) 2,4-Diketo-1,6-Dimethyl-3-Aethyl-1,2,3,4-Tetrahydro-1,3-Diazin. Sm. 112—114° (A. 323, 169 C. 1902 [2] 890).
- 16) 3-Methyl-5-Propylpyrazol-4-Carbonsäure. Sm. 226° (C. 1901 [1] 1154).
- $C_8H_{12}O_3N_2$  8) 6-Keto-4-[ $\alpha$ -Oximidoäthyl]-3,5-Dimethyl-5,6-Dihydro-1,2-Oxazin [4]. Sm. 203—204° (C. r. 134, 180 C. 1902 [1] 457).
- 9) Aethylester d.  $\alpha$ -Oximido- $\delta$ -Cyanvaleriansäure. Sm. 74° (C. 1902 [1] 985; B. 35, 3773 C. 1902 [2] 1414).
- 10) Acetat d. 4-Oximido-3,5,5-Trimethyl-4,5-Dihydroisoxazol. Sm. 68—69° (A. 319, 238 C. 1902 [1] 188).
- $C_8H_9O_3Br_2$  \*2) Anhydrid  $\alpha$ -Bromisobuttersäure (B. 34, 2074).
- $C_8H_9O_4Cl_2$  5) Di[ $\beta$ -Chloräthylidenäther] d. Erythrit. Sm. 101—103° (Bl. [3] 25, 585).
- $C_8H_{12}O_4Br_2$  \*4) Dimethylester d.  $\beta\gamma$ -Dibrombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 84° (M. 22, 795).
- \*6) Diäthylester d.  $\alpha\beta$ -Dibrombernsteinsäure (B. 34, 4221 C. 1902 [1] 175).
- 9) Diäthylester d.  $\alpha\beta$ -Isodibrombernsteinsäure. Fl. (B. 13, 1671; B. 34, 4220 C. 1902 [1] 175). — I, 660.
- $C_8H_{13}O_4S_6$  1) Tetraäthyldisulfontetrasulfid. Zers. oberh. 250° (B. 34, 213).
- $C_8H_{12}N_3S_2$  1) Hydrazon d. Trithiodibutolakton. Sm. 104,5° (B. 34, 3397).
- $C_8H_{13}ON$  \*2) Tropinon (C. 1901 [1] 712).
- \*7) 1-Oximido-3,5-Dimethyl-1,2,3,4-Tetrahydrobenzol (A. 322, 381 C. 1902 [2] 736).
- \*8) 3-Oximido-2,6-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 102° (Bl. [3] 25, 243).
- \*16) Amid d. 2,3,4,5-Tetrahydro-R-Hepten-1-Carbonsäure. Sm. 158 bis 159° (A. 317, 237).
- 24) 1-[ $\beta$ -Oxyäthyl]-2,5-Dimethylpyrrol. Sm. 46°; Sd. 249°<sub>742</sub> (C. 1901 [1] 72).
- 25) Amid d. 1-Methyl-R-Pentamethylen-3-Methylen-carbonsäure. Sm. 126° (C. 1902 [1] 1222).
- $C_8H_{13}ON_3$  2) 7-Semicarbazonbicycloheptan. Sm. 209—210° (B. 34, 3801 C. 1902 [1] 42).
- $C_8H_{13}OBr$  1)  $\gamma$ -Brom- $\gamma$ -Keto- $\beta$ -Methyl- $\beta$ -Hepten. Sd. 96° (A. 319, 90).
- $C_8H_{13}O_3N$  \*2) Osein. (2HCl. PtCl<sub>4</sub> + H<sub>2</sub>O) (C. 1902 [2] 844; J. pr. [2] 66, 202 C. 1902 [2] 942).
- \*3) Methylester d. 1-Methyl-1,2,5,6-Tetrahydropyridin-3-Carbonsäure (M. 23, 22 C. 1902 [1] 821).
- 21) Betain d. 1,1-Dimethyl-1,2,3,4-Tetrahydropyridin-3-Carbonsäure + 2H<sub>2</sub>O. Sm. 248° u. Zers. (B. 35, 615 C. 1902 [1] 573).
- 22) Aethylester d. 5-Amido-2,3-Dihydro-R-Penten-4-Carbonsäure. Sm. 60° (A. 317, 58).
- $C_8H_{13}O_3Br$  9) 2-Brom-R-Heptamethylen-1-Carbonsäure. Sd. 167—168°<sub>25</sub> (A. 317, 239).
- $C_8H_{13}O_3N$  10) 4-Oximido-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. Sm. 188 bis 190° u. Zers. (Soc. 79, 783).
- 11) Methylester d. Ecgoninsäure. Sd. 275°<sub>13,5</sub> (B. 34, 522).
- $C_8H_{13}O_4N$  \*3) d-Tropinsäure (Ar. 239, 666 C. 1902 [1] 266).



- $C_8H_{13}O_4N$  \*4) i-Tropinsäure (*Ar.* 239, 666 *C.* 1902 [1] 266).  
 \*5) 1-Methylhexahydropyridin-3,4-Dicarbonsäure (*M.* 23, 274 *C.* 1902 [1] 1323).  
 \*8) Diäthylester d.  $\beta$ -Amidoäthen- $\alpha$ -Dicarbonsäure. Sm. 56—57° (67°) (*J. pr.* [2] 66, 12 *C.* 1902 [2] 508).
- $C_8H_{13}O_4Br$  13) 1-Tropinsäure. Sm. 243° u. Zers. (*Ar.* 239, 666 *C.* 1902 [1] 266).  
 \*4) Diäthylester d.  $\alpha$ -Bromäthan- $\alpha$ -Dicarbonsäure. Sd. 114°<sub>14</sub> (*C.* 1902 [2] 578).
- $C_8H_{13}NS$  1) 3-Methylhexahydrophenylsenföhl. Sd. 115,5°<sub>13</sub> (*B.* 35, 831 *C.* 1902 [1] 713).
- $C_8H_{11}ON_2$  5) 5-Keto-3-Amyl-4,5-Dihydropyrazol. Sm. 195° (*C. r.* 133, 821 *C.* 1902 [1] 29).  
 6) 5-Keto-4-Aethyl-3-Propyl-4,5-Dihydropyrazol. Sm. 145° (*C. r.* 135, 110 *C.* 1902 [2] 512).  
 7) Oxim d. Granatonin. Sm. 199°. Pikrat (*G.* 31 [1] 562).  
 8) Hydrazid d. 2,3,4,5-Tetrahydro-R-Hepten-1-Carbonsäure. Sm. 137 bis 139° (*A.* 317, 238).
- $C_8H_{11}O_2N_2$  11) 1-Nitroso-3-Keto-2,2,5,5-Tetramethyltetrahydropyrrol. Sm. 75,5 bis 76° (*B.* 34, 2290; *A.* 322, 116 *C.* 1902 [2] 127).  
 12) 2,5-Diketo-3,6-Diäthylhexahydro-1,4-Diazin. Sm. 265° (*B.* 34, 444).
- $C_8H_{11}O_2N_4$  4) 1,3,7-Trimethylpyron. Sm. 209° u. Zers. Pikrat (*B.* 34, 285).  
 5) 1,3,7-Trimethylisopyron. Sm. 211—212° (*B.* 34, 288).
- $C_8H_{11}O_2S$  1)  $\beta$ -Merkapto- $\beta$ -Pentenäthyläther- $\gamma$ -Carbonsäure. Sm. 64—65°. Ba + 2H<sub>2</sub>O (*B.* 32, 2808). — \*I, 459.  
 2) Aethylester d.  $\beta$ -Merkaptopropenäthyläther- $\alpha$ -Carbonsäure. Sd. 195°<sub>766</sub> (*B.* 32, 2807). — \*I, 458.
- $C_8H_{11}O_3N_2$  3) Aethylester d.  $\alpha$ -Ureido- $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sm. 175 bis 176° (*C.* 1901 [1] 218; *Bl.* [3] 25, 914).
- $C_8H_{11}O_4N_2$  6) Aethylester d. Acetylamidoacetylamidoessigsäure (Acetylglycylglycinester). Sm. 152° (*B.* 35, 1101 *C.* 1902 [1] 910).
- $C_8H_{11}O_4S_2$  6) Bistetramethylensulfon. Sm. 145—146° (*B.* 34, 3398).  
 7) Säure (aus Trithiodibutolakton). Sm. 106—106,5° (*B.* 34, 3400 Anm.).
- $C_8H_{11}N_8S_2$  1) 1,4-Di[Thiosemicarbazone]hexahydrobenzol. Sm. 210—215° u. Zers. (*B.* 35, 2605 *C.* 1902 [2] 572).
- $C_8H_{15}ON$  \*22) Tropin (*B.* 34, 3163; *B.* 35, 1870 *C.* 1902 [2] 131; *B.* 35, 1159 *C.* 1902 [1] 1015; *B.* 35, 2295 *C.* 1902 [2] 375).  
 \*27) Pseudotropin. Sm. 108—108,5°; Sd. 240—241° (*B.* 34, 3165; D.R.P. 128855 *C.* 1902 [1] 609; D.R.P. 133564 *C.* 1902 [2] 491).  
 \*31) Amid d. 1-Methylhexahydrobenzol-3-Carbonsäure. Sm. 155—156° (*B.* 35, 2689 *C.* 1902 [2] 591).  
 \*34) Amid d. R-Heptamethylenearbonsäure. Sm. 193—194° (*B.* 35, 2691 *C.* 1902 [2] 591).  
 \*38) Base (aus d-Lupanin). HBr (*C.* 1902 [1] 669).  
 \*40) 3-Oximido-1,1,2-Trimethyl-R-Pentamethylen. Sm. 104° (*Am.* 27, 427 *C.* 1902 [2] 365).  
 42)  $\epsilon$ -Oximido- $\zeta$ -Methyl- $\beta$ -Hepten. Sd. 99°<sub>12</sub> (*A.* 319, 113).  
 43) 2-Oximido-1,4-Dimethylhexahydrobenzol. Sm. 97—98° (*Bl.* [3] 25, 199).  
 44) 3-Oximido-1,1,2-Trimethyl-R-Pentamethylen. Sm. 107—108° (*Bl.* [3] 27, 76 *C.* 1902 [1] 586).  
 45) 1- $[\beta$ -Oxyäthyl]-2,5-Dimethyl-2,3-Dihydropyrrol. Sd. 170—200° (*C.* 1901 [1] 72).  
 46) 3-Keto-2,2,5,5-Tetramethyltetrahydropyrrol. Sd. 175°<sub>740</sub>. HCl, Pikrat (*B.* 34, 2289; *A.* 322, 113 *C.* 1902 [2] 127).
- $C_8H_{15}ON_3$  9) 3-Semicarbazone-1,1-Dimethyl-R-Pentamethylen. Sm. 174—175° (*A.* 324, 110 *C.* 1902 [2] 1201).  
 10) Semicarbazone d. Keton  $C_8H_{15}O$  (aus Tropilen). Sm. 185—186° (*A.* 317, 253).
- $C_8H_{15}O_2N$  \*8)  $\epsilon$ -Oximido- $\zeta$ -Keto- $\beta$ -Methylheptan. Sm. 32—33°; Sd. 128°<sub>18</sub> (*C. r.* 135, 296 *C.* 1902 [2] 693).  
 27)  $\alpha$ -Nitro- $\alpha$ -Okten. Sd. 113—115° (*C. r.* 134, 1228 *C.* 1902 [2] 22).  
 28) Oxim d. Aldol  $C_8H_{15}O_2$ . Fl. (*M.* 22, 16).  
 29) Methylester d. 1-Piperidylessigsäure. Sd. 205—207° (*B.* 35, 182 *C.* 1902 [1] 429).

- $C_8H_{15}O_2N$  30) Aethylester d. Hexahydropyridin-1-Carbonsäure. *Sd.* 103°<sub>20</sub> (*C. r.* 133, 104).
- $C_8H_{15}O_2Cl$  31) Nitril d.  $\gamma\gamma$ -Dioxybutterdiäthyläthersäure. *Sd.* 106°<sub>45</sub> (*B. 34*, 1923).
- $C_8H_{15}O_2N$  32) Aethylester d.  $\beta$ -Chlor- $\beta$ -Methylbutan- $\delta$ -Carbonsäure (*C. 1901* [2] 534).
- 10)  $\beta$ -Chloräthylidenäther d.  $\beta\gamma$ -Dioxy- $\beta\gamma$ -Dimethylbutan. *Sd.* 191—192° (*Bl.* [3] 25, 582).
- 11) Amylester d.  $\beta$ -Chlorpropionsäure. *Sd.* 109—110°<sub>21</sub> (*C. 1901* [1] 613).
- 12) Chlorformiat d.  $\delta$ -Oxyheptan (Dipropylcarbinolester d. Chlorameisensäure). *Sd.* 157—159° (*C. 1901* [1] 1302).
- 13) Chlorformiat d.  $\delta$ -Oxy- $\beta$ -Methylhexan. *Sd.* 155—157° (*C. 1901* [1] 1303).
- 14) Chlorformiat d.  $\beta$ -Oxy- $\gamma$ -Aethylpentan. *Sd.* 154—156° (*C. 1901* [1] 1303).
- $C_8H_{15}O_3N$  9)  $\delta$ -Oximido- $\beta$ -Methylpentan- $\gamma$ -Methylcarbonsäure. *Sm.* 119—120° (*A.* 323, 342 *C. 1902* [2] 1204).
- 10) Aethylester d.  $i$ - $\alpha$ -Acetylamido- $\gamma$ -Methylvaleriansäure ( $i$ -Acetyl-leucin). *Sm.* 161° (*B. 34*, 449).
- 11) Monamid d. Butan- $\alpha$ -Dicarbonsäuremonoäthylester. *Sm.* 101° (*B. 35*, 850 *C. 1902* [1] 746).
- $C_8H_{15}O_3N_2$  4) 3-Semicarbazon-1,2-Dioxy-1-Methylhexahydrobenzol. *Sm.* 221 bis 222° u. Zers. (*B. 35*, 1177 *C. 1902* [1] 989).
- 5)  $\delta$ -Semicarbazon- $\gamma$ -Methylpentan- $\alpha$ -Carbonsäure. *Sm.* 152—158° (*C. 1902* [2] 346).
- 6) Aethylester d.  $\gamma$ -Semicarbazonbutan- $\alpha$ -Carbonsäure. *Sm.* 136° (*G.* 27 [2] 176). — \*I, 828.
- 7) Aethylester d.  $\alpha$ -Semicarbazon- $\beta$ -Methylpropan- $\alpha$ -Carbonsäure. *Sm.* 95—96° (*C. 1901* [1] 726).
- $C_8H_{15}O_4N$  \*2) Diäthylester d. l-Asparaginsäure. *Sd.* 126,5°<sub>11</sub> (*B. 34*, 452).
- 5) Acetat d.  $\delta$ -Nitro- $\epsilon$ -Oxy- $\beta$ -Methylpentan. *Fl.* (*C. 1902* [1] 400).
- $C_8H_{15}O_4N_3$  2)  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. *Sm.* 199 bis 200° (*A.* 314, 389 *Ann.*).
- $C_8H_{15}O_6N$  \*1) Acetylchitosamin. *Sm.* 190° u. Zers. (*M.* 22, 127 *C. 1902* [1] 1092).
- $C_8H_{15}NS_2$  4) 2-Thiocarbonyl-3-Isoamyltetrahydrothiazol. *Sd.* 155—157°<sub>12</sub> (*B. 35*, 3385 *C. 1902* [2] 1364).
- $C_8H_{15}ON_2$  12) 3-Oximido-2,2,5,5-Tetramethyltetrahydropyrrol. *Sm.* 172° (*B. 34*, 2290; *A.* 322, 119 *C. 1902* [2] 127).
- 13) l-Nitroso- $\beta$ -Trimethylhexahydropyridin. *Sd.* 134°<sub>18</sub> (*A.* 319, 80).
- 14) Isopropylidenhydrazid d. Isovaleriansäure. *Sm.* 67° (*J. pr.* [2] 64, 414 *C. 1902* [1] 23).
- $C_8H_{16}O_2N_2$  \*2)  $\beta\gamma$ -Dioximidooktan. *Sm.* 170—171° (*G.* 31 [1] 406).
- \*5)  $\epsilon\zeta$ -Dioximido- $\beta$ -Methylheptan. *Sm.* 181° (*C. r.* 135, 296 *C. 1902* [2] 693).
- \*20)  $\gamma\delta$ -Dioximido- $\beta\epsilon$ -Dimethylhexan. *Sm.* 163—164° (*J. pr.* [2] 63, 368; *G.* 31 [1] 462).
- 23)  $\delta\epsilon$ -Dioximidohexan. *Sm.* 175° (*J. pr.* [2] 63, 368; *G.* 31 [1] 461).
- 24) s-Dibutyrylhydrazin. *Sm.* 167°; *Sd.* 214°<sub>24</sub> (*B. 34*, 188, 682).
- $C_8H_{16}O_2N_6$  C 42,1 — H 7,0 — O 14,0 — N 36,8 — M. G. 228.
- 1)  $\beta\epsilon$ -Disemicarbazonhexan. *Sm.* 223—224° (*B. 34*, 3985 *C. 1902* [1] 193).
- $C_8H_{16}O_3N_2$  5)  $\gamma\zeta$ -Dioximido- $\beta$ -Oxy- $\beta$ -Methylheptan. *Sm.* 123° (*B. 35*, 1182 *C. 1902* [1] 1010).
- 6) Diamid d. Homopilomalsäure. *Sm.* 208° (206°) (*Soc.* 79, 1338 *C. 1902* [1] 50; *B. 35*, 198 *C. 1902* [1] 432).
- $C_8H_{16}O_4N_2$  14)  $\delta$ -Nitrat d.  $\gamma$ -Oximido- $\delta$ -Oxy- $\delta$ -Methylpentan. *Sm.* 108—109° (*C. 1901* [2] 1202).
- $C_8H_{16}NCl$  6) Chlormethylat d. 1,2,4-Trimethyl- $\beta$ -Dihydropyrrol. 2 + PtCl<sub>4</sub> (*B. 34*, 3495).
- $C_8H_{16}NJ$  6) l-Methyl-2-[ $\beta$ -Jodäthyl]hexahydropyridin. *HJ* (*B. 34*, 1892).
- 7) Jodmethylat d. 1,2,4-Trimethyl- $\beta$ -Dihydropyrrol (*B. 34*, 3494).
- 8) Jodmethylat d. 1,2,5-Trimethyl- $\beta$ -Dihydropyrrol. *Sm.* 272° u. Zers. (*B. 34*, 3497).
- $C_8H_{16}N_2S_4$  1) Disulfid d. Propylamidodithioameisensäure (Dipropylthiuramdisulfid). *Sm.* 58° (*B. 35*, 821 *C. 1902* [1] 712).

- $C_8H_{18}N_2S_4$  2) Disulfid d. Isopropylamidodithioameisensäure (Diisopropylthiuramdisulfid). Sm.  $69^\circ$  (B. 35, 821 C. 1902 [1] 712).
- $C_8H_{17}ON$  \*8)  $\alpha$ -Oximidooktan. Sm.  $56^\circ$ ; Sd.  $120$ — $125^\circ_{10}$  (C. r. 134, 1228 C. 1902 [2] 22).
- \*9)  $\beta$ -Oximidooktan. Sd.  $136$ — $138^\circ_{40}$  (M. 23, 914 C. 1902 [2] 1450).
- \*14) Conhydrin (B. 34, 3166).
- \*30) Amid d. Heptan- $\delta$ -Carbonsäure. Sm.  $123^\circ$  (B. 35, 853 C. 1902 [1] 746).
- 39) 3-Oxy-2,2,5,5-Tetramethyltetrahydropyrrol. Sm.  $71^\circ$ ; Sd.  $90$  bis  $91^\circ_{11,5}$  (B. 34, 2291; A. 322, 122 C. 1902 [2] 127).
- $C_8H_{17}ON_3$  \*1)  $\beta$ -Semicarbazoneheptan. Sm.  $122$ — $123^\circ$  (J. pr. [2] 66, 48 C. 1902 [2] 520).
- 3)  $\delta$ -Semicarbazoneheptan. Sm.  $133^\circ$  (B. 34, 2123).
- 4)  $\gamma$ -Semicarbazone- $\beta$ -Methylhexan. Sm.  $117$ — $118^\circ$  (C. 1901 [1] 724).
- 5)  $\delta$ -Semicarbazone- $\beta$ -Methylhexan. Sm.  $143^\circ$  (B. 34, 2123).
- 6)  $\epsilon$ -Semicarbazone- $\beta$ -Methylhexan. Sm.  $142$ — $143^\circ$  (J. pr. [2] 66, 49 C. 1902 [2] 520).
- 7) Semicarbazone eines Keton  $C_8H_{14}O$ . Sm.  $123^\circ$  (B. 34, 2121).
- $C_8H_{17}O_2N$  \*19) Betain d. Triäthylamidoessigsäure. Sm. bis  $170^\circ$  (B. 35, 605 C. 1902 [1] 572).
- \*22) Aethylester d. i- $\alpha$ -Amido- $\gamma$ -Methylvaleriansäure (Ae. d. i-Leucinsäure). Sd.  $196^\circ_{761}$ . Pikrat, d-Tartrat (B. 34, 444).
- \*23) Aethylester d. Diäthylamidoessigsäure. Sd.  $177^\circ$  (B. 35, 595, 600, 605 C. 1902 [1] 572).
- 28) Aethylester d. i- $\alpha$ -Amidocaprionsäure. Sd.  $90$ — $91^\circ_{11}$ . Pikrat (B. 34, 450; B. 34, 3767 C. 1902 [1] 30).
- 29) Aethylester d. l- $\alpha$ -Amido- $\gamma$ -Methylvaleriansäure. Sd.  $196^\circ_{781}$  (B. 34, 445).
- 30) Amidoformiat d.  $\delta$ -Oxy- $\beta$ -Methylhexan. Sm.  $73$ — $74^\circ$  (C. 1901 [1] 1303).
- 31) Amidoformiat d.  $\beta$ -Oxy- $\gamma$ -Aethylpentan. Sm.  $80$ — $81^\circ$  (C. 1901 [1] 1303).
- $C_8H_{17}O_2Cl$  4) Diäthyläther d.  $\gamma$ -Chlor- $\alpha\alpha$ -Dioxybutan. Sd.  $70$ — $71^\circ_{12}$  (B. 35, 1905 C. 1902 [2] 22).
- 5) Aethylbutyläther d.  $\beta$ -Chlor- $\alpha\alpha$ -Dioxyäthan. Sd.  $190$ — $195^\circ$  (Bl. [3] 25, 576).
- $C_8H_{17}O_3N$  3)  $\alpha$ -Nitro- $\beta$ -Oxyoktan. Sd.  $138$ — $140^\circ_{10}$  u. Zers. (C. r. 134, 1228 C. 1902 [2] 22).
- $C_8H_{17}O_7N$  C 40,2 — H 7,1 — O 46,9 — N 5,8 — M. G. 239.
- 1) Dibutyrylorthosalpetersäure. Sd.  $155^\circ$  (D.R.P. 137100 C. 1902 [2] 1438).
- $C_8H_{17}NS_2$  1) Dimethyläther d. Isoamylimidodimerkaptomethan. Sd.  $242$ — $245^\circ$ . (2HCl, PtCl<sub>4</sub>) (C. r. 134, 110 C. 1902 [1] 413; Bl. [3] 27, 63 C. 1902 [1] 577).
- 2) Methylester d. Dipropylamidodithioameisensäure. Sm.  $0^\circ$ ; Sd.  $275^\circ$  (C. r. 134, 715 C. 1902 [1] 977; Bl. [3] 27, 591 C. 1902 [2] 349).
- 3) Aethylester d. Isoamylimidodithioameisensäure. Sd.  $167$ — $168^\circ_{15}$  (B. 35, 3382 C. 1902 [2] 1363).
- $C_8H_{17}N_2Cl$  1) Nitril d.  $\alpha$ -Methyläthyljodammoniumpropionsäure. + AuCl<sub>3</sub> (J. pr. [2] 65, 197 C. 1902 [1] 983).
- $C_8H_{17}N_2J$  2) Nitril d.  $\alpha$ -Methyläthyljodammoniumpropionsäure. Sm.  $212^\circ$  u. Zers. (J. pr. [2] 65, 196 C. 1902 [1] 983).
- 3) Nitril d. Triäthyljodammoniumessigsäure. Sm.  $179^\circ$  (J. pr. [2] 65, 195 C. 1902 [1] 983).
- $C_8H_{17}N_3S$  1)  $\alpha$ -Thiosemicarbazoneheptan. Ag (B. 35, 2052 C. 1902 [2] 105).
- $C_8H_{15}O_2N_2$  2)  $\alpha$ -Amido- $\alpha$ -Oximido- $\beta$ -Oxyoktan ( $\alpha$ -Oxycaprylsäureaminoxim). Sm.  $141^\circ$  (A. 321, 370 C. 1902 [1] 1276).
- $C_8H_{15}O_2N_1$  7)  $\beta\delta$ -Diureido- $\beta$ -Methylpentan. 2HNO<sub>3</sub> (M. 23, 17 C. 1902 [1] 803).
- $C_8H_{15}O_3N_2$  C 50,5 — H 9,5 — O 25,3 — N 14,7 — M. G. 190.
- 1) Diäthyläther d.  $\gamma\gamma$ -Dioxypropylharnstoff. Sm.  $61^\circ$  (B. 34, 1920).
- $C_8H_{15}NCl$  11) Chlormethylat d. Hexamethylenimin. 2 + PtCl<sub>4</sub> (A. 324, 295 C. 1902 [2] 1507).
- $C_8H_{15}NJ$  \*3) Jodmethylat d. 1,2,5-Trimethyltetrahydropyrrol. Sm.  $310^\circ$  (B. 34, 3501).

- $C_8H_8NJ$  7) Jodmethylat d. Hexamethylenimin. Sm. 260° u. Zers. (A. 324, 294 C. 1902 [2] 1507).
- $C_8H_{19}ON$  \*3)  $\beta$ -Propylhydroxylamidopentan. Sd. 183°<sub>760</sub>. HCl (J. pr. [2] 63, 225).  
 4)  $\beta$ -Oxyäthylhexylamin. Fl. Pikrat, Pikrolonat (A. 315, 114).  
 5)  $\beta$ -Oxyäthildipropylamin. Sd. 195—196°<sub>758</sub>. Pikrat, Pikrolonat (A. 316, 312).  
 6) Base (aus 3-Keto-2,2,5,5-Tetramethyltetrahydropyrol). Sm. 26°; Sd. 87,8 bis 88°<sub>115</sub>. (2HCl, PtCl<sub>4</sub>) (B. 34, 2291; A. 322, 123 C. 1902 [2] 127).
- $C_8H_{19}O_2N$  3) Butylidi[ $\beta$ -Oxyäthyl]amin. Sd. 273—275°. Pikrat, Pikrolonat (A. 315, 128).  
 4) Isobutylidi[ $\beta$ -Oxyäthyl]amin. Sd. 264—265°. Pikrolonat (A. 315, 133).  
 5) Diäthyläther d.  $\gamma$ -Amido- $\alpha$ -Dioxypropan. S. 1. 196° (B. 34, 1924).
- $C_8H_{19}O_3N$  2) Mono[ $\beta$ -Dimethylamidoäthyläther] d. Di[ $\beta$ -Oxyäthyl]äther. Sd. 200 bis 230°<sub>230</sub> (B. 34, 3483 Ann.).
- $C_8H_{19}O_4P$  3) Äthylester d. Di( $\alpha$ -Oxyisopropyl)unterphosphorigesäure. Sm. 95° (C. r. 133, 819 C. 1902 [1] 21).

## — 8 IV —

- $C_8H_2O_2NCl_3$  2) Imid d. 3,4,6-Trichlorbenzol-1,2-Dicarbonssäure. Sm. 236° (B. 34, 2110).
- $C_8H_2O_4N_4S_2$  1) 4,6-Dinitro-1,3-Dirhodanbenzol. Sm. 185° u. Zers. (C. 1901 [2] 381).
- $C_8H_2O_3NBr_2$  2) Imid d. 4,5-Dibrombenzol-1,2-Dicarbonssäure. Sm. 242—244° (B. 34, 2745).
- $C_8H_4ONCl$  2) Cyanid d. 2-Chlorbenzol-1-Carbonssäure. Sm. 35° (J. pr. [2] 66, 383 C. 1902 [2] 1503).  
 3) Cyanid d. 4-Chlorbenzol-1-Carbonssäure. Sm. 40° (J. pr. [2] 66, 383 C. 1902 [2] 1503).
- $C_8H_4O_2NCl$  \*6) Chlorimid d. Benzol-1,2-Dicarbonssäure (B. 34, 4210 C. 1902 [1] 252).  
 7) isom. Chlorisatin? Sm. 140° (C. r. 133, 518).  
 8) Imid d. 3-Chlorbenzol-1,2-Dicarbonssäure. Sm. 118—120° (u. D). (C. 1901 [2] 1159).
- $C_8H_4O_2NBr$  \*1) m-Bromisatin (C. 1902 [1] 936).
- $C_8H_4O_2N_2Br_2$  2) 5,6-Dibrom-2-Nitroso-1-Keto-1,3-Dihydroisindol. Sm. 183 bis 185° (B. 34, 2746).
- $C_8H_4O_2N_3Cl_5$  1) 1,1,3,5,6-Pentachlor-4-Keto-2-Semicarbazonmethyl-1,4-Dihydrobenzol. Sm. 202° (B. 34, 4141 C. 1902 [1] 190).
- $C_8H_4O_3NCl$  3) 3-Chlor-2,4-Diketo-3,4-Dihydro-1,3-Benzoxazin. Sm. 179—180° (B. 35 3652 C. 1902 [2] 1457).
- $C_8H_4O_3NBr$  \*1) 2-Brom-p-Nitrobenzofuran. Sm. 132° (B. 35, 1639 C. 1902 [1] 1360).
- $C_8H_5ONBr_2$  1) 5,6-Dibrom-1-Keto-1,3-Dihydroisindol. Sm. 279—280° (B. 34, 2745).
- $C_8H_5ONBr_4$  1) 2,3,4,6-Tetrabromphenylamid d. Essigsäure. Sm. 228—229° (Soc. 81, 499 C. 1902 [1] 864).
- $C_8H_5ONS$  3) 2-Thiocarbonyl-3-Keto-2,3-Dihydroindol ( $\alpha$ -Thioisatin) (D.R.P. 131934 C. 1902 [1] 1429).
- $C_8H_5ON_2Cl$  \*2) Nitril d. stab.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essigsäure. Sm. 112°. Na + 4H<sub>2</sub>O (J. pr. [2] 66, 373 C. 1902 [2] 1502).  
 3) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[2-Chlorphenyl]essigsäure. Sm. 126°. Na + 4H<sub>2</sub>O (J. pr. [2] 66, 377 C. 1902 [2] 1502).  
 4) Nitril d. lab.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essigsäure. Sm. 62° (J. pr. [2] 66, 373 C. 1902 [2] 1502).
- $C_8H_5O_2N_4Cl$  8) Nitril d. 4-Nitro-1-Chlormethylbenzol-3-Carbonssäure. Sm. 59 bis 60° (B. 34, 3374).
- $C_8H_5O_3NBr_2$  5) Acetat d. 2,6-Dibrom-4-Nitroso-1-Oxybenzol. Sm. 122° u. Zers. (Soc. 79, 688).
- $C_8H_5O_3N_3Cl$  1) Nitril d. 5-Chlor-6-Nitro-2-Oxybenzolmethyläther-1-Carbonssäure? Sm. 163° (R. 20, 109).
- $C_8H_5O_3N_2Br_3$  \*2) 2,4,6-Tribrom-3-Nitrophenylamid d. Essigsäure. Sm. 216—217° (Soc. 81, 503 C. 1902 [1] 1053).  
 5) 4,5,6-Tribrom-2-Nitrophenylamid d. Essigsäure. Sm. 221° (Soc. 81, 499 C. 1902 [1] 864).

- $C_8H_5O_4NCl_4$  1) Methylether d. 2,3,5,6-Tetrachlor-1-Nitro-4-Keto-1-Oxy-methyl-1,4-Dihydrobenzol. Sm. 140° u. Zers. (A. 320, 192 C. 1902 [1] 652).
- $C_8H_5O_4NJ_2$  1) 2,6-Dijod-4-Nitrophenylester d. Essigsäure. Sm. 194—195° (C. r. 134, 359 C. 1902 [1] 638).
- $C_8H_3O_4N_2Br$  1)  $\beta$ -Brom- $\beta$ -Nitro- $\alpha$ -[4-Nitrophenyl]äthen. Sm. 135—136° (J. pr. [2] 66, 17 C. 1902 [2] 583).
- 2)  $\beta$ -Brom- $\beta$ -Nitro- $\alpha$ -[2-Nitrophenyl]äthen. Sm. 88° (J. pr. [2] 66, 17 C. 1902 [2] 583).
- $C_8H_5O_5ClBr$  1) Methylester d. 6-Chlor-2-Brom-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2}H_2O$ . Sm. 162—163° (wasserfrei) (G. 31 [2] 361 C. 1902 [1] 39; G. 32 [1] 569 C. 1902 [2] 639).
- $C_8H_5O_6N_2Cl$  4) Methylester d. 2-Chlor-3,5-Dinitrobenzol-1-Carbonsäure. Sm. 87° (G. 32 [1] 574 C. 1902 [2] 582).
- 5) Methylester d. 4-Chlor-3,5-Dinitrobenzol-1-Carbonsäure. Sm. 175° (B. 34, 2184).
- $C_8H_5ONCl$  2)  $\beta$ -Chlor-3-Oxyindol (D.R.P. 131401 C. 1902 [1] 1344).
- $C_8H_5ONCl_3$  \*5) 2,4-Dichlorphenylchloramid d. Essigsäure (Soc. 79, 280).
- $C_8H_5ONBr$  2)  $\beta$ -Brom-3-Oxyindol (D.R.P. 131401 C. 1902 [1] 1344).
- $C_8H_5ONBr_3$  6)  $\beta\beta$ -Dibrom- $\alpha$ -Oximido- $\alpha$ -[4-Bromphenyl]äthan. Sm. 111—112° (Bl. [3] 27, 542 C. 1902 [2] 116).
- 7) 4-Bromphenylamid d. Dibromessigsäure. Sm. 170° (Bl. [3] 27, 542 C. 1902 [2] 116).
- $C_8H_5ONJ$  1)  $\beta$ -Jod-3-Oxyindol (D.R.P. 131401 C. 1902 [1] 1344).
- $C_8H_5ONJ_3$  1) 3,4,5-Trijodphenylamid d. Essigsäure. Sm. 135° (B. 34, 3349).
- $C_8H_5ON_2Br_2$  1) 5,7-Dibrom-2-Methylbenzimidazol-2,3-Oxyd. Sm. 269°. K, HCl,  $HNO_3$  (C. 1902 [2] 940).
- $C_8H_5ON_3Cl_3$  1)  $\alpha$ -Oximido- $\alpha$ -[2,4,6-Trichlorphenyl]azoäthan. Sm. 185—186° u. Zers. (B. 35, 88 C. 1902 [1] 404).
- $C_8H_5ON_3S_7$  1) Kanarin.  $Na_3$ ,  $K_3$ ,  $Mg$  +  $H_2O$ ,  $Cu$  (J. pr. [2] 63, 41, 480; [2] 64, 175; J. pr. [2] 64, 439 C. 1902 [1] 113).
- $C_8H_5O_2N_3Cl_3$  1)  $\alpha$ -Nitro- $\alpha$ -[2,4,6-Trichlorphenyl]azoäthan. Sm. 98° (B. 35, 87 C. 1902 [1] 404).
- $C_8H_5O_2ClBr$  3) Chlorid d. 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 80—85° (M. 22, 951 C. 1902 [1] 194).
- $C_8H_5O_3NCl$  6) Chlormethylat d. Pyridin-2,3-Dicarbonsäureanhydrid (M. 22, 374).
- 7) Chlormethylat d. Pyridin-3,4-Dicarbonsäureanhydrid (M. 23, 770 C. 1902 [2] 1056).
- 8) Chlorid d. 4-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 59—60° (R. 20, 170).
- 9) Chlorid d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 68—68,5° (R. 20, 172).
- 10) Chlorid d. 4-Nitro-1-Methylbenzol-3-Carbonsäure (R. 20, 163).
- 11) 3-Chlorid d. Pyridin-2,3-Dicarbonsäure-2-Methylester. Sm. 70 bis 130° (M. 22, 580).
- 12) Monochlorid d. Pyridin-3,4-Dicarbonsäuremonomethylester. Sm. 183° u. Zers. (M. 22, 583).
- $C_8H_5O_4NCl$  17) Chlorid d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 86—88° (M. 22, 945 C. 1902 [1] 194).
- $C_8H_6O_4NCl_3$  1) Dimethyläther d. 4, 5, 6-Trichlor-3-Nitro-1, 2-Dioxybenzol (Trichlornitroveratrol). Sm. 94—96° (C. r. 134, 290 C. 1902 [1] 584).
- $C_8H_5O_4NBr$  15) 3,4-Methylenäther d.  $\beta$ -Brom-3,4-Dioxybenzhydroxamsäure. Sm. 180° u. Zers. (G. 31 [2] 34).
- 16) Methylester d. 4-Brom-3-Nitrobenzol-1-Carbonsäure. Sm. 104° (B. 34, 2183).
- 17) Methylester d. 6-Brom-3-Nitrobenzol-1-Carbonsäure. Sm. 82° (B. 34, 2182).
- $C_8H_6O_4NBr_3$  2)  $\beta$ -Tribrom- $\beta$ -Nitro-1,2-Dioxybenzol (Tribromnitroveratrol). Sm. 115—116° (C. r. 134, 290 C. 1902 [1] 584).
- $C_8H_6O_4NJ$  6) 6-Jod-2-Nitrophenylester d. Essigsäure. Sm. 96—97° (C. r. 134, 359 C. 1902 [1] 638).
- 7) 2-Jod-4-Nitrophenylester d. Essigsäure. Sm. 68° (C. r. 134, 360 C. 1902 [1] 638).



- $C_8H_9O_{10}Cl_2S_2$  1) Dichlormethyl-2,3,4-Trioxyphenylketon-*p*-Disulfonsäure.  $Na_2$  (B. 34, 96).
- $C_8H_7ONCl_2$  11)  $\beta$ -Chlor- $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]äthan. Sm. 100,5—101° (Bl. [3] 27, 540 C. 1902 [2] 116).
- 12) 4-Chlorphenylamid d. Chloressigsäure. Sm. 168° (Bl. [3] 27, 540 C. 1902 [2] 116).
- $C_8H_7ONBr_2$  11)  $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -[4-Bromphenyl]äthan. Sm. 115° (Bl. [3] 27, 541 C. 1902 [2] 116).
- 12) 2,6-Dibromphenylamid d. Essigsäure. Sm. 208—209° (Soc. 79, 820).
- 13) 4-Bromphenylamid d. Bromessigsäure. Sm. 169—170° (Bl. [3] 27, 541 C. 1902 [2] 116).
- $C_8H_7ONJ_3$  1) 3,5-Dijodphenylamid d. Essigsäure. Sm. 101—102° (B. 34, 3346).
- $C_8H_7ON_2Br$  4) Nitril d. 5-Brom-6-Oxy-2,4-Dimethylpyridin-3-Carbonsäure. Sm. 327° (313°).  $Na$  (C. 1901 [1] 1053; Soc. 81, 106 C. 1902 [1] 427).
- 5) Nitril d. 3-Brom-6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 260—262° (C. 1901 [1] 1053).
- $C_8H_7ON_3Cl_2$  1)  $\alpha$ -Oximido- $\alpha$ -[2,4-Dichlorphenyl]azoäthan. Sm. 207° u. Zers. (B. 35, 85 C. 1902 [1] 404; B. 35, 1090 C. 1902 [1] 996).
- $C_8H_7ON_3S$  2) 5-Thiocarbonyl-3-Oxy-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 229—230° (B. 34, 2329).
- $C_8H_7OClHg$  1) Benzoylmethylquecksilberchlorid. Sm. 145—146° (B. 35, 2870 C. 1902 [2] 1040).
- $C_8H_7O_2N_3Cl$  2)  $\alpha\beta$ -Dioximido- $\alpha$ -[4-Chlorphenyl]äthan. Sm. 198—199° (Bl. [3] 27, 542 C. 1902 [2] 117).
- 3) Amid d. lab.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essigsäure. Sm. 97° (J. pr. [2] 66, 376 C. 1902 [2] 1502).
- 4) Amid d. stab.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essigsäure. Sm. 150° (J. pr. [2] 66, 376 C. 1902 [2] 1502).
- $C_8H_7O_2N_3Br$  \*1)  $\alpha\beta$ -Dioximido- $\alpha$ -[4-Bromphenyl]äthan. Sm. 171—172° (Bl. [3] 27, 543 C. 1902 [2] 117).
- $C_8H_7O_2N_3Cl_2$  1)  $\alpha$ -Nitro- $\alpha$ -[2,4-Dichlorphenyl]hydrazonäthan. Sm. 95,5° (B. 35, 84 C. 1902 [1] 404).
- $C_8H_7O_3NBr_2$  \*4) Aethyläther d. 2,6-Dibrom-4-Nitro-1-Oxybenzol. Sm. 58—59° (B. 35, 1131 C. 1902 [1] 915).
- $C_8H_7O_3NS$  5) 4-Cyan-1-Methylbenzol-3-Sulfonsäure. K (D.R.P. 48 583).
- $C_8H_7O_3N_3Cl$  \*6) 2-Chlor-4-Nitrophenylamid d. Essigsäure. Sm. 138—139° (C. 1902 [1] 752).
- $C_8H_7O_3N_3Br$  13) syn.  $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 126,5 bis 127° (B. 34, 1909).
- 14) 3-Nitrophenylamid d. Bromessigsäure. Sm. 118—119° (B. 34, 1910).
- $C_8H_7O_3ClS$  2) Chlorid d. 1,2-Dihydrobenzofuran-*p*-Sulfonsäure. Sm. 81° (C. 1902 [2] 370).
- $C_8H_7O_4ClS$  1) 4-Chlorphenylsulfonessigsäure. Sm. 122° (J. pr. [2] 66, 146 C. 1902 [2] 797).
- 2) 2-Chlorid d. Benzol-1-Carbonsäuremethylester-2-Sulfonsäure. Sm. 64—65° (C. 1901 [2] 961).
- $C_8H_7O_4BrS$  1) 4-Bromphenylsulfonessigsäure. Sm. 143° (J. pr. [2] 66, 146 C. 1902 [2] 797).
- $C_8H_7O_5N_3S$  2) 5-Nitro-2,4-Dimethyl-1-Diazobenzol-6-Sulfonsäure (B. 35, 3760 C. 1902 [2] 1453).
- $C_8H_7O_6N_2Br$  3) Monoäthyläther d. *p*-Brom-4,6-Dinitro-1,3-Dioxybenzol. Sm. 78°. Ba (Am. 26, 54).
- $C_8H_7O_6N_4Cl$  1) 4-Chlor-2,6-Dinitro-1-Aethylnitramidobenzol. Sm. 76° (R. 21, 274 C. 1902 [2] 514).
- $C_8H_7O_6N_4Br$  1) 4-Brom-2,6-Dinitro-1-Aethylnitramidobenzol. Sm. 85° (R. 21, 273 C. 1902 [2] 514).
- $C_8H_7O_7NS$  \*1) 1-Methylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Ba + 3H<sub>2</sub>O (Am. 25, 8).
- $C_8H_7O_7N_3S$  1) 4-Nitrobenzoylharnstoff-2-Sulfonsäure. NH<sub>4</sub>, Na, K + H<sub>2</sub>O, Ba + 2H<sub>2</sub>O, Pb + 5H<sub>2</sub>O, Cu + 3H<sub>2</sub>O, Ag + H<sub>2</sub>O (Am. 25, 211). — \*II, 806.
- $C_8H_8ONCl$  \*13) Phenylchloramid d. Essigsäure (Soc. 79, 277).

- $C_8H_5ONCl$  26) *syn-β-Chlor-α-Oximido-α-Phenyläthan*. Sm. 88,5—89° (*B. 34*, 1903).
- $C_8H_5ONCl_3$  \*1) 2-*γγγ*-Trichlor-β-Oxypropylpyridin. (2HCl,  $PtCl_4 + \frac{1}{2}H_2O$ ), (HCl,  $AuCl_3$ ), Pikrat, + 5HgCl<sub>2</sub> (*Ar. 240*, 180 *C. 1902* [1] 1232).
- $C_8H_5ONBr$  \*3) Bromamid d. Phenylessigsäure. Sm. 123—125° (*B. 35*, 254).  
11) *anti-β-Brom-α-Oximido-α-Phenyläthan*. Sm. 96,5—97° (*B. 34*, 1908).  
12) *syn-β-Brom-α-Oximido-α-Phenyläthan*. Sm. 92° (*B. 34*, 1907).
- $C_8H_5ON_2S$  \*1) Benzoylthioharnstoff. (HCl,  $PtCl_4$ ) (*B. 35*, 2569 *C. 1902* [2] 579).  
 $C_8H_5ON_2Cl$  \*2) α-Oximido-α-[4-Chlorphenyl]azoäthan. Sm. 187—188° (*B. 35*, 75 *C. 1902* [1] 403; *B. 35*, 689 *C. 1902* [1] 726; *B. 35*, 757 *C. 1902* [1] 726; *B. 35*, 3271 *C. 1902* [2] 1251).
- $C_8H_5ON_2Cl_3$  1) α-Oximido-α-[2,4,6-Trichlorphenyl]hydrazidoäthan. Sm. 156,5°. HCl (*B. 35*, 90 *C. 1902* [1] 404; *B. 35*, 1090 *C. 1902* [1] 996).
- $C_8H_5ON_2S$  1) 4-Amido-5-Thiocarbonyl-3-Oxy-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 191—192° u. Zers. (*B. 34*, 2328).
- $C_8H_5OClIJ$  1) Äthyläther d. 5-Chlor-2-Jod-1-Oxybenzol. Sd. 273—278° u. Zers. (*B. 31*, 1715). — \*II, 375.
- $C_8H_5OCl_2J$  1) Äthyläther d. 4-Chlor-2-Oxyphenyljodidchlorid. Zers. bei 103° (*B. 31*, 1715). — \*II, 375.
- $C_8H_5O_2NCl$  13) Chlormethyl-5-Amido-2-Oxyphenylketon. Sm. 135° (*B. 34*, 128).  
14) 4-Chlor-2,6-Dimethylpyridin-3-Carbonsäure + 2H<sub>2</sub>O. Sm. 168 bis 170° (wasserfrei) (*Soc. 59*, 176; *B. 35*, 3159 *C. 1902* [2] 1215).
- $C_8H_5O_2NBr$  \*2) 6-Brom-4-Nitro-1,3-Dimethylbenzol. Sm. 56—57° (*B. 34*, 2253).  
\*12) β-Brom-β-[2-Pyridyl]propionsäure. HBr (*Ar. 240*, 187 *C. 1902* [1] 1232).  
17) 4-Brom-2-Nitro-1,3-Dimethylbenzol. Sm. 70—71° (*B. 34*, 2261).  
18) 2-Brom-4-Nitro-1,3-Dimethylbenzol. Sm. 57—58° (*B. 34*, 2254).  
19) 5-Brom-4-Nitro-1,3-Dimethylbenzol. Sm. 39—40° (*B. 34*, 2258).  
20) α-Brom-β-[2-Pyridyl]propionsäure. (HBr,  $AuBr_3$ ) (*Ar. 240*, 195 *C. 1902* [1] 1232).
- 21) Amid d. 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 75 bis 78° (*M. 22*, 952 *C. 1902* [1] 194).
- $C_8H_5O_2N_2S$  5) Amid d. 4-Cyan-1-Methylbenzol-3-Sulfonsäure. Sm. 67° (D.R.P. 48583).
- $C_8H_5O_2N_3Cl$  2) α-Nitro-α-[4-Chlorphenyl]azoäthan. Sm. 126—127° (*B. 35*, 81 *C. 1902* [1] 403).  
3) α-Oximido-α-[4-Chlorphenyl]azoxyäthan. Sm. 101,5° (*B. 35*, 77 *C. 1902* [1] 403).
- $C_8H_5O_2Br_2S_3$  1) Äthylester d. Säure  $C_8H_4O_2Br_2S_3$ . Sm. 115—116° (*B. 34*, 216).  
 $C_8H_5O_2N_2S$  7) 2,4-Dimethyldiazobenzol-6-Sulfonsäure (*B. 35*, 3752 *C. 1902* [2] 1452).
- $C_8H_5O_4NCl$  2) Dimethyläther d. 4-Chlor-2-Nitro-1,3-Dioxybenzol. Sm. 66—67° (*Soc. 81*, 999 *C. 1902* [2] 698).  
3) Dimethyläther d. 6-Chlor-4-Nitro-1,3-Dioxybenzol. Sm. 125,5° (D.R.P. 135331 *C. 1902* [2] 1351).  
4) Chlormethylat d. Pyridin-2,3-Dicarbonsäure. Zers. oberb. 220° (*M. 22*, 369).
- $C_8H_5O_4J_2S_2$  1) 1,3-Di[Jodmethylsulfon]benzol. Sm. 263—265° (*B. 35*, 1398 *C. 1902* [1] 1097).
- $C_8H_5O_5N_2S$  3) Benzoylharnstoff-2-Sulfonsäure.  $NH_3$ , Na + H<sub>2</sub>O, K, Ba + 2H<sub>2</sub>O, Pb + 3H<sub>2</sub>O, Cu + 6H<sub>2</sub>O, Ag (*Am. 25*, 206). — \*II, 802.
- $C_8H_5ONBr_2$  \*4) Äthyläther d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 107°. HCl (*B. 35*, 1132 *C. 1902* [1] 915).
- $C_8H_5ONS$  \*15) Phenylamid d. Merkaptoessigsäure. Sm. 111—112° (*J. pr.* [2] 66, 174 *C. 1902* [2] 931).
- $C_8H_5ON_2Cl_2$  1) α-Oximido-α-[2,4-Dichlorphenyl]hydrazidoäthan. Sm. 138° u. Zers. HCl (*B. 35*, 82 *C. 1902* [1] 403, 404).
- $C_8H_5ON_2S$  1) 2-Oxybenzylidenamidothioharnstoff. Sm. 231° (*B. 35*, 2603 *C. 1902* [2] 572).  
2) 4-Oxybenzylidenamidothioharnstoff. Sm. 224° (*B. 35*, 2604 *C. 1902* [2] 572).
- $C_8H_5OCl_2J$  1) Äthyläther d. 2-Oxyphenyljodidchlorid (*B. 31*, 1714). — \*II, 374.

- $C_8H_9OCl_2As$  1) Aethyläther d. 4-Oxyphenyldichlorarsin. Sd. 198°<sub>28</sub> (A. 320, 299 C. 1902 [1] 920).  
 2) Dichlorid d. 2,4-Dimethylphenylarsinsäure. Sm. 150° (A. 320, 332 C. 1902 [1] 922).  
 3) Dichlorid d. 2,5-Dimethylphenylarsinsäure. Sm. 178° (A. 320, 337 C. 1902 [1] 923).
- $C_8H_9OJHg$  \* 1) Aethyläther d. 2-Oxyphenylquecksilberjodid. Sm. 111° (C. 1901 [1] 452).
- $C_8H_9O_2NS$  7) Aethyläther d. 4-Nitro-1-Merkaptobenzol. Sm. 40° (R. 20, 404 C. 1902 [1] 417).  
 8) Phenylamid d. Aethensulfonsäure. Sm. 68° (B. 34, 3474).
- $C_8H_9O_3NHg$  1) Acetat d. 2-Amidophenylquecksilberhydroxyd. Sm. 158—160° (B. 35, 2039 C. 1902 [2] 114).  
 2) 1-Acetat d. 4-Amidophenylquecksilberhydroxyd. Sm. 166 bis 167° (C. 1901 [1] 454; B. 35, 2039 C. 1902 [2] 114).
- $C_8H_9O_3N_2Cl$  7) 4-Chlor-2-Nitro-1-Aethylamidobenzol. Sm. 93° (R. 21, 274 C. 1902 [2] 514).
- $C_8H_9O_3N_2Br$  5) 5-Brom-6-Nitro-4-Amido-1,3-Dimethylbenzol. Sm. 66—67° (B. 34, 2257). — \*II, 311.  
 6) 4-Brom-2-Nitro-1-Aethylamidobenzol. Sm. 91° (R. 21, 273 C. 1902 [2] 514).  
 7) 5-Brom-2-Nitro-1-Aethylamidobenzol. Sm. 90° (R. 21, 277 C. 1902 [1] 515).
- $C_8H_9O_3ClS$  11) Chlorid d. 1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 89—90° (94°) (B. 34, 1260; C. 1901 [1] 385).
- $C_8H_9O_3BrS$  3) Bromid d. 1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 92—93° (C. 1901 [1] 385).
- $C_8H_9O_3NS$  5) Amid d. 1,2-Dihydrobenzofuran-3-Sulfonsäure. Sm. 163° (C. 1902 [2] 370).
- $C_8H_9O_3ClS$  13)  $\beta$ -[4-Chlorphenyl]sulfon- $\alpha$ -Oxyäthan. Fl. (J. pr. [2] 66, 140 C. 1902 [2] 796).
- $C_8H_9O_3Cl_2As$  1) 2-Dichlor-2,4-Dimethylphenylarsinsäure. Sm. 193° (A. 320, 334 C. 1902 [1] 922).
- $C_8H_9O_3BrS$  10)  $\beta$ -[4-Bromphenyl]sulfon- $\alpha$ -Oxyäthan. Sm. 50—52° (J. pr. [2] 66, 141 C. 1902 [2] 796).  
 11) 4-Brom-1,3-Dimethylbenzol-5-Sulfonsäure. Na + H<sub>2</sub>O, Ba (B. 35, 3754 C. 1902 [2] 1452).
- $C_8H_9O_4NS$  \* 2) 3-Acetylamidobenzol-1-Sulfonsäure. Na + 2H<sub>2</sub>O, Ba + 2H<sub>2</sub>O (J. pr. [2] 63, 407).  
 14) C-Phenylamid d. Methancarbonsäuresulfonsäure. Na (D.R.P. 79174). — \*II, 170.
- $C_8H_9O_6NS$  15) 4-Nitro-1-Aethylbenzol-3-Sulfonsäure. Na + 2H<sub>2</sub>O (J. pr. [2] 66, 162 C. 1902 [2] 936).
- $C_8H_9O_6NS$  3) 2-Nitrophenylester d. Aethylschwefelsäure. Sd. 268° (D.R.P. 75456). — \*II, 377.
- $C_8H_9O_6NS_2$  1)  $\beta$ -Phenylimidoäthan- $\alpha\alpha$ -Disulfonsäure. K<sub>2</sub> + 2H<sub>2</sub>O (Bl. [3] 27, 10 C. 1902 [1] 405).
- $C_8H_{10}ON_2S$  10) Aethylester d. 4-Pyridylamidothioameisensäure. Sm. 92—93° (Ar. 240, 365 C. 1902 [2] 649).  
 11) Isopropylidenhydrazid d. Thiophen-2-Carbonsäure. Sm. 108° (J. pr. [2] 65, 11 C. 1902 [1] 458).
- $C_8H_{10}ON_3Cl$  \* 1)  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]hydrazidoäthan. Sm. 129°. HCl (B. 35, 74 C. 1902 [1] 403; B. 35, 689 C. 1902 [1] 726; B. 35, 757 C. 1902 [1] 726; B. 35, 1089 C. 1902 [1] 996; B. 35, 3271 C. 1902 [2] 1251).
- $C_8H_{10}O_2NCl$  3) Dimethyläther d. 6-Chlor-4-Amido-1,3-Dioxybenzol. Sm. 90° (D.R.P. 135331 C. 1902 [2] 1351).
- $C_8H_{10}O_2NJ$  3) Methylester d. Pyridiniumjodidessigsäure. Zers. bei 144—145° (B. 35, 774 C. 1902 [1] 720).
- $C_8H_{10}O_2N_3Fe$  1) Propylnitritprussidwasserstoff + 2H<sub>2</sub>O (Z. a. Ch. 11, 285; 12, 167). — \*I, 797.
- $C_8H_{10}O_3ClAs$  1) 2-Chlor-2,4-Dimethylphenylarsinsäure. Sm. 165° (A. 320, 334 C. 1902 [1] 922).

- $C_8H_{10}O_4ClBr$  2) Laktone d.  $\delta$ -Chlor- $p$ -Brom- $\gamma$ -Oxybutan- $\alpha$ - $\alpha$ -Dicarbonsäuremonoäthylester. Sd.  $180^{10}_{12}$  (B. 34, 1950).
- $C_8H_{10}O_5NaS$  1)  $p$ -Nitro-2,4-Dimethylphenylarsinsäure. Sm.  $207^\circ$ .  $Ag_2$  (A. 320, 334 C. 1902 [1] 922).  
2)  $p$ -Nitro-2,5-Dimethylphenylarsinsäure. Sm.  $205^\circ$  (A. 320, 339 C. 1902 [1] 923).
- $C_8H_{10}O_5N_2S$  4) 6-Nitro-4-Amido-1,3-Dimethylbenzol-5-Sulfonsäure +  $H_2O$ .  $K + H_2O$ , Ba (B. 35, 3758 C. 1902 [2] 1453).
- $C_8H_{10}NClHg$  \*1) 4-Dimethylamidophenylquecksilberchlorid. Sm.  $225^\circ$  (C. 1901 [1] 454).
- $C_8H_{11}ONS_2$  1) Oxim d. Trithiodibutolaktone. Sm.  $201-202^\circ$  u. Zers. (B. 34, 3397).
- $C_8H_{11}ON_2Br$  1) Äthyläther d. 5-Brom-2-Oxy-4,6-Dimethyl-1,3-Diazin. Sm.  $40-41^\circ$ ; Sd.  $254^\circ$ . +  $HgCl_2$  (B. 34, 3960 C. 1902 [1] 127).
- $C_8H_{11}ON_3S$  2) Methyläther d.  $\alpha$ -Amido- $\beta$ -(4-Oxyphenyl)thioharnstoff. Sm.  $144^\circ$  (B. 35, 1714 C. 1902 [2] 29).
- $C_8H_{11}O_2NS$  \*11) Amid d. 1,3-Dimethylbenzol-4-Sulfonsäure. Sm.  $138-139^\circ$  (B. 35, 3757 C. 1902 [2] 1453).  
\*13) Methylamid d. 1-Methylbenzol-4-Sulfonsäure. Na (B. 34, 3547).  
19) Amid d. 1,3-Dimethylbenzol-5-Sulfonsäure. Sm.  $135^\circ$  ( $134^\circ$ ) (B. 34, 1260; C. 1901 [1] 385; B. 35, 3756 C. 1902 [2] 1452).  
20) Phenylamid d. Aethansulfonsäure. Sm.  $55^\circ$  ( $58^\circ$ ) (B. 34, 3481; C. 1902 [1] 854, 855).
- $C_8H_{11}O_2NS_2$  2) 1-Dimethylamidobenzol-4-Thiolsulfonsäure (C. 1901 [1] 1127).
- $C_8H_{11}O_2Cl_2As$  1) Dimethyläther d. Phenyldioxyarsendichlorid. Sm.  $90^\circ$  (A. 320, 287 C. 1902 [1] 919).
- $C_8H_{11}O_3NS$  \*15) Amid d. 3-Oxybenzoläthyläther-1-Sulfonsäure. Sm.  $128^\circ$  (Am. 25, 72).  
\*16) Amid d. 4-Oxybenzoläthyläther-1-Sulfonsäure. Sm.  $149^\circ$  (Am. 25, 72).  
22) 4-Amido-1,3-Dimethylbenzol-5-Sulfonsäure. Na, K, Ba +  $2H_2O$ , Pb (C. 1901 [1] 385; B. 35, 3748 C. 1902 [2] 1452).  
23) 1-Aethylamidobenzol-3-Sulfonsäure. Zers. bei  $294^\circ$ . Na +  $2H_2O$ , Ba (J. pr. [2] 63, 414).  
24) isom. 1-Aethylamidobenzol-3-Sulfonsäure. Zers. bei  $258^\circ$ . Na +  $3H_2O$ , Ba +  $H_2O$ , Ag +  $H_2O$  (J. pr. [2] 63, 416).
- $C_8H_{11}O_4NS$  3) 2-Amido-5-Oxy-1,3-Dimethylbenzol-4-Sulfonsäure (A. 316, 304).  
4) Diäthylester d. Rhodanmalonsäure. Sd.  $169-170^{22-23}_{22-23}$  (Am. 26, 350).
- $C_8H_{12}ONCl$  3) Nitrosochlorid d. 1,1-Dimethyl-1,2-Dihydrobenzol. Sm.  $118,5$  bis  $126^\circ$  u. Zers. (Soc. 81, 835 C. 1902 [2] 450).
- $C_8H_{12}ON_2S$  1) 2-Allylimido-4-Keto-3-Aethyltetrahydrothiazol? Fl. (C. 1899 [2] 805). — \*I, 744.
- $C_8H_{12}O_3NP$  3) Monophenylamid d. Phosphorsäuremonoäthylester. Ba (Soc. 81, 1371 C. 1902 [2] 1198).  
4) Mono-4-Methylphenylamid d. Phosphorsäuremonomethylester. K, Ba +  $7H_2O$  (Soc. 81, 1375 C. 1902 [2] 1198).
- $C_8H_{12}O_3NaS$  1) 4-Dimethylamidophenylarsinsäure. subl. (A. 320, 295 C. 1902 [1] 920).
- $C_8H_{12}O_3N_2S$  \*2) 4-Amido-1-Dimethylamidobenzol-2-Sulfonsäure (C. 1901 [2] 1103).  
5) 4,6-Diamido-1,3-Dimethylbenzol-5-Sulfonsäure. K, Ba +  $H_2O$  (B. 35, 3764 C. 1902 [2] 1453).
- $C_8H_{12}O_3N_2S_2$  \*1) 2-Amido-5-Dimethylamidobenzol-1-Thiosulfonsäure. K +  $H_2O$  (C. r. 133, 1216 C. 1902 [1] 303).
- $C_8H_{12}O_6N_2S_4$  1) 4-Amido-1-Dimethylamidobenzol- $p$ -Di[Thiosulfonsäure].  $K_2$  (C. 1901 [1] 1187).
- $C_8H_{12}O_7N_2S_2$  1)  $\alpha$ -Phenylhydrazido- $\alpha$ -Oxyäthan- $\beta\beta$ -Disulfonsäure.  $K_2$  +  $2H_2O$  (Bl. [3] 27, 9 C. 1902 [1] 405).
- $C_8H_{13}O_2N_2P$  1) Amid-Phenylamid d. Phosphorsäureäthylester. Sm.  $127^\circ$  (Soc. 81, 1371 C. 1902 [2] 1198).
- $C_8H_{14}ONBr$  2)  $\gamma$ -Brom- $\zeta$ -Oximido- $\beta$ -Methyl- $\beta$ -Hepten. Sm.  $58^\circ$ ; Sd.  $140^\circ$  (A. 319, 93).
- $C_8H_{14}O_2NBr$  2) Bromdihydroscopolin. HBr (C. 1902 [2] 845).
- $C_8H_{14}O_2NJ$  1) Joddihydroscopolin. HJ (C. 1902 [2] 844).
- $C_8H_{14}O_2N_2S$  1) Carboxymethylpiperidylthioharnstoff. Sm.  $97^\circ$  (Soc. 79, 911).

- $C_8H_{14}O_3N_2S_2$  1) Cystinhydanthoänsäure. Ba +  $H_2O$ ,  $Ag_2$  +  $Ag_2O$  (C. 1902 [2] 1360).  
 $C_8H_{15}ONS_2$  1) Isoamylester d. Acetylamidodithioameisensäure. Sm.  $84^\circ$  (Am. 26, 192).  
 $C_8H_{15}O_3N_2Cl$  2) Monohydrazid d.  $\delta$ -Chlor- $\gamma$ -Oxybutan- $\alpha$ - $\alpha$ -Dicarbonsäuremono-äthylester. Sm.  $129^\circ$  (B. 34, 1978).  
 $C_8H_{16}ONCl$  5)  $\delta$ -Chlor- $\gamma$ -Oximido- $\delta$ -Methylheptan. Sm.  $61$ — $63^\circ$  (C. 1901 [2] 1202).  
 $C_8H_{18}ON_2S_4$  \* 1) Verbindung (aus Rhodankalium) (Soc. 81, 168 C. 1902 [1] 347).  
 $C_8H_{18}O_3NJ$  2) Jodmethylat d. Diäthylamidoessigsäure. Sm.  $90$ — $92^\circ$  (B. 35, 600 C. 1902 [1] 572).  
3) Jodäthylat d. Dimethylamidoessigsäureäthylester. Sm.  $71,5$  bis  $72,5^\circ$  (B. 35, 599 C. 1902 [1] 572).  
 $C_8H_{22}ON_2Cl_2$  1) Verbindung (aus Di[Chlormethyl]äther u. Trimethylamin). +  $PtCl_4$  +  $H_2O$  (A. 316, 171).  
 $C_8H_{22}ON_2Br_2$  1) Verbindung (aus Di[Brommethyl]äther u. Trimethylamin) +  $H_2O$  Sm.  $205^\circ$  (A. 316, 193).

## — 8 V —

- $C_8H_4ONBr_3S$  1) 2,4,6-Tribrom-3-Oxy-1-Rhodanmethylbenzol. Sm.  $121$ — $122^\circ$  (B. 34, 4285 C. 1902 [1] 310). — \*II, 682.  
 $C_8H_4O_3N_2ClBr_3$  1) 2,4,6-Tribrom-3-Nitrophenylechloramid d. Essigsäure. Sm.  $159^\circ$  (Soc. 81, 503 C. 1902 [1] 1053).  
 $C_8H_4O_3N_2Cl_2Br_2$  1) 4-Chlor-2,6-Dibrom-3-Nitrophenylechloramid d. Essigsäure. Sm.  $134$ — $135^\circ$  (Soc. 81, 503 C. 1902 [1] 1053).  
 $C_8H_5ONClBr_3$  1) 2,4,6-Tribromphenylechloramid d. Essigsäure. Sm.  $109$ — $110^\circ$  (Soc. 79, 822).  
 $C_8H_5ONCl_2Br_2$  1) 6-Chlor-2,4-Dibromphenylechloramid d. Essigsäure. Sm.  $99$  bis  $100^\circ$  (Soc. 79, 818).  
2) 4-Chlor-2,6-Dibromphenylechloramid d. Essigsäure. Sm.  $110$  bis  $111^\circ$  (Soc. 79, 817).  
 $C_8H_5ONCl_2Br$  1) 4,6-Dichlor-2-Bromphenylechloramid d. Essigsäure. Sm.  $91$  bis  $92^\circ$  (Soc. 79, 820).  
2) 2,6-Dichlor-4-Bromphenylechloramid d. Essigsäure. Sm.  $81^\circ$  (Soc. 79, 819).  
 $C_8H_5ONBr_2S$  1) 3,5-Dibrom-2-Oxy-1-Rhodanmethylbenzol. Sm.  $111$ — $112^\circ$  (B. 34, 4284 C. 1902 [1] 310). — \*II, 681.  
2) 3,5-Dibrom-4-Oxy-1-Rhodanmethylbenzol. Sm.  $108$ — $109^\circ$  (B. 34, 4285 C. 1902 [1] 310). — \*II, 682.  
 $C_8H_5O_3N_2ClBr_2$  1) 4-Chlor-2,6-Dibrom-3-Nitrophenylamid d. Essigsäure. Sm.  $224^\circ$  (Soc. 81, 504 C. 1902 [1] 1053).  
2) 2,6-Dibrom-4-Nitrophenylechloramid d. Essigsäure. Sm.  $110$  bis  $111^\circ$  (Soc. 81, 498 C. 1902 [1] 864).  
 $C_8H_5O_3N_2Cl_2Br$  1) 6-Chlor-4-Brom-2-Nitrophenylechloramid d. Essigsäure. Sm.  $56$ — $57^\circ$  (Soc. 81, 498 C. 1902 [1] 864).  
2) 6-Chlor-2-Brom-4-Nitrophenylechloramid d. Essigsäure. Sm.  $84$ — $85^\circ$  (Soc. 81, 497 C. 1902 [1] 863).  
 $C_8H_6ONClBr_2$  1)  $\beta\beta$ -Dibrom- $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]äthan. Sm.  $106$ — $108^\circ$  (Bl. [3] 27, 541 C. 1902 [2] 116).  
2) 4-Chlorphenylamid d. Dibromessigsäure. Sm.  $162$ — $163^\circ$  (Bl. [3] 27, 542 C. 1902 [2] 116).  
3) 3-Chlor-2,4-Dibromphenylamid d. Essigsäure. Sm.  $152^\circ$  (Soc. 79, 1304 C. 1902 [1] 34).  
4) 5-Chlor-2,4-Dibromphenylamid d. Essigsäure. Sm.  $174^\circ$  (Soc. 79, 1304 C. 1902 [1] 34).  
5) 6-Chlor-2,4-Dibromphenylamid d. Essigsäure. Sm.  $227^\circ$  (Soc. 79, 818).  
6) 4-Chlor-2,6-Dibromphenylamid d. Essigsäure. Sm.  $226$ — $227^\circ$  (Soc. 79, 817).  
7) 2-Chlor-3,4-Dibromphenylamid d. Essigsäure. Sm.  $146^\circ$  (Soc. 79, 1305 C. 1902 [1] 34).  
8) 6-Chlor-3,4-Dibromphenylamid d. Essigsäure. Sm.  $198^\circ$  (Soc. 79, 1304 C. 1902 [1] 34).  
9) 2,4-Dibromphenylechloramid d. Essigsäure. Sm.  $56$ — $57^\circ$  (Soc. 79, 822).



- $C_8H_6ONClBr_2$  10) 2,6-Dibromphenylchloramid d. Essigsäure. Sm. 88° (*Soc.* 79, 820).
- 11) 4-Chlor-2-Bromphenylbromamid d. Essigsäure. Sm. 85—86° (*Soc.* 79, 821).
- 12) 2-Chlor-4-Bromphenylbromamid d. Essigsäure. Sm. 110—111° (*Soc.* 79, 821).
- $C_8H_6ONCl_2Br$  2) 4,6-Dichlor-2-Bromphenylamid d. Essigsäure. Sm. 218° (*Soc.* 79, 819).
- 3) 2,4-Dichlor-3-Bromphenylamid d. Essigsäure. Sm. 138° (*Soc.* 79, 1302 C. 1902 [1] 34).
- 4) 4,6-Dichlor-3-Bromphenylamid d. Essigsäure. Sm. 192° (*Soc.* 79, 1302 C. 1902 [1] 34).
- 5) 2,3-Dichlor-4-Bromphenylamid d. Essigsäure. Sm. 138,5° (*Soc.* 79, 1301 C. 1902 [1] 34).
- 6) 2,5-Dichlor-4-Bromphenylamid d. Essigsäure. Sm. 189° (*Soc.* 79, 1301 C. 1902 [1] 34).
- 7) 2,6-Dichlor-4-Bromphenylamid d. Essigsäure. Sm. 214° (*Soc.* 79, 819).
- 8) 3,5-Dichlor-4-Bromphenylamid d. Essigsäure. Sm. 220° (*Soc.* 79, 1303 C. 1902 [1] 34).
- 9) 4-Chlor-2-Bromphenylchloramid d. Essigsäure. Sm. 74 bis 75° (*Soc.* 79, 821).
- 10) 2-Chlor-4-Bromphenylchloramid d. Essigsäure. Sm. 88 bis 89° (*Soc.* 79, 821).
- 11) 2,4-Dichlorphenylbromamid d. Essigsäure. Sm. 95—96° (*Soc.* 79, 821).
- $C_8H_6O_2NCIS$  1) Chlorid d. 4-Cyan-1-Methylbenzol-3-Sulfonsäure. Sm. 67° (D.R.P. 48 583).
- $C_8H_6O_2NCl_2J_3$  1)  $\alpha\beta$ -Dichloräthyl-5-Jod-3-Nitrophenyljodoniumjodid. Sm. 108° (*B.* 34, 3415).
- $C_8H_6O_2NCl_3J_2$  1)  $\alpha\beta$ -Dichloräthyl-5-Jod-3-Nitrophenyljodoniumchlorid. Sm. 170°. +  $HgCl_2$ , 2 +  $PtCl_4$  (*B.* 34, 3415).
- $C_8H_6O_3N_2ClBr$  2) 4-Chlor-6-Brom-2-Nitrophenylamid d. Essigsäure. Sm. 207° (*Soc.* 81, 498 C. 1902 [1] 864).
- 3) 6-Chlor-4-Brom-2-Nitrophenylamid d. Essigsäure. Sm. 194° (*Soc.* 81, 498 C. 1902 [1] 864).
- 4) 6-Chlor-2-Brom-4-Nitrophenylamid d. Essigsäure. Sm. 221 bis 222° (*Soc.* 81, 497 C. 1902 [1] 863).
- $C_8H_7ONClBr$  4)  $\beta$ -Chlor- $\alpha$ -Oximido- $\alpha$ -[4-Bromphenyl]äthan. Sm. 115° (*Bl.* [3] 27, 541 C. 1902 [2] 116).
- 5)  $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]äthan. Sm. 106,5° (*Bl.* [3] 27, 541 C. 1902 [2] 116).
- 6) 4-Chlor-3-Bromphenylamid d. Essigsäure. Sm. 130° (*Soc.* 79, 466).
- 7) 6-Chlor-3-Bromphenylamid d. Essigsäure. Sm. 141° (*Soc.* 79, 466).
- 8) 4-Chlorphenylamid d. Bromessigsäure. Sm. 161° (*Bl.* [3] 27, 541 C. 1902 [2] 116).
- 9) 4-Bromphenylamid d. Chloressigsäure. Sm. 180—181° (*Bl.* [3] 27, 541 C. 1902 [2] 116).
- 10) 2-Chlorphenylbromamid d. Essigsäure. Sm. 152° (*Soc.* 81, 987 C. 1902 [2] 360).
- 11) 4-Chlorphenylbromamid d. Essigsäure. Sm. 91° (*Soc.* 79, 820).
- 12) 2-Bromphenylchloramid d. Essigsäure. Sm. 86° (*Soc.* 81, 987 C. 1902 [2] 360).
- 13) 4-Bromphenylchloramid d. Essigsäure. Sm. 108—109° (*Soc.* 79, 820).
- $C_8H_6O_3NCl_2J_2$  1)  $\alpha\beta$ -Dichloräthyl-5-Jod-3-Nitrophenyljodoniumhydrat. Salze siehe (*B.* 34, 3415).
- $C_8H_3ONSP$  1) Phosphid d. Benzoylamidothioameisensäure (Benzoylphosphothioharnstoff). Sm. 155—157° (*Ann.* 26, 360).
- $C_8H_6O_2ClBrS$  3) Chlorid d. 4-Brom-1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 75° (*B.* 35, 3755 C. 1902 [2] 1452).

- $C_8H_{10}O_2NBrS$  10) Amid d. 4-Brom-1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 158° (B. 35, 3755 C. 1902 [2] 1452).
- $C_8H_{11}O_2NClP$  1) Phenylamid d. Aethylphosphorsäurechlorid. Sm. 61--62° (C. 1901 [1] 687; Soc. 81, 1371 C. 1902 [2] 1198).
- 2) 4-Methylphenylamid d. Methylphosphorsäurechlorid. Sm. 115--116° (Soc. 81, 1374 C. 1902 [2] 1198).

## — 8 VI —

- $C_8H_9O_2NCl_2BrJ_2$  1)  $\alpha$ -Dichloräthyl-5-Jod-3-Nitrophenyljodoniumbromid. Sm. 159° (B. 34, 3415).

**C<sub>9</sub>-Gruppe.**

- $C_9H_8$  \*1) Inden.  $HgSO_4 + 2HgO, 2HgSO_4 + 2HgO + H_2O$  (C. 1901 [2] 1348).
- $C_9H_{10}$  \*2)  $\alpha$ -Phenylpropen. Sd. 74°<sub>13</sub> (B. 35, 2251 C. 1902 [2] 273).
- \*5) 4-Methylphenyläthen. Sd. 60°<sub>12</sub> (B. 35, 2248 C. 1902 [2] 273).
- 7)  $\beta$ -Phenylpropen. Sd. 158--160°<sub>748</sub> (160--162°) (C. 1901 [1] 930; 1901 [2] 624; C. r. 134, 845 C. 1902 [1] 1161; B. 35, 2640 C. 1902 [2] 586; B. 35, 3506 C. 1902 [2] 1319).
- $C_9H_{12}$  \*1) Propylbenzol (Bl. [3] 25, 239).
- \*2) Isopropylbenzol. Sd. 151--153° (Bl. [3] 25, 844).
- 9) sec. Butyliden-R-Penten (Methyläthylfulven). Sd. 185° (B. 34, 2937).
- $C_9H_{14}$  \*4) Camphenylen (C. 1902 [2] 592).
- 7) 1,3,5-Trimethyl-1,2-Dihydrobenzol. Sd. 147° (A. 323, 144 C. 1902 [2] 842).
- 8) 5-Methyl-3-Aethenyl-1,2,3,4-Tetrahydrobenzol? Sd. 160--163° (A. 324, 96 C. 1902 [2] 1202).
- 9) Didehydrocampholen. Sd. 127--128°<sub>757</sub> (Bl. [3] 27, 409 C. 1902 [1] 1335).
- 10) Kohlenwasserstoff (aus Sabinenketon). Sd. 165--166° (B. 35, 2047 C. 1902 [2] 123).
- 11) Kohlenwasserstoff (aus Terpenitrit). Sd. 160--164° (B. 34, 716).
- $C_9H_{16}$  \*9) Kohlenwasserstoff (aus Pulegensäure). Sd. 136--138° (Bl. [3] 27, 311 C. 1902 [1] 1223).
- \*10)  $\beta$ -Dimethyl- $\alpha$ -Heptadien. Sd. 143--145°<sub>755</sub> (C. 1901 [2] 624).
- \*12)  $\alpha$ -Cyklogeraniolen. Sd. 138--139° (C. 1902 [1] 1295; A. 324, 101 C. 1902 [2] 1200).
- 13) 1-Methyl-3-Aethyl-P-Tetrahydrobenzol. Sd. 148--149°<sub>743</sub> (B. 34, 3255).
- 14) 3-Aethyliden-1-Methylhexahydrobenzol. Sd. 149--150°<sub>738</sub> (B. 35, 2142 C. 1902 [2] 279).
- 15) 3,5-Dimethyl-1-Methylenhexahydrobenzol? Sd. 135--140° (Am. 25, 292).
- 16) Pulegen. Sd. 138--139° (C. 1902 [1] 1295).
- 17) Pulenen (C. 1902 [1] 1294).
- 18) Kohlenwasserstoff (aus  $\alpha$ -Dioxy- $\beta$ - $\beta$ -Trimethylhexan). Sd. 112° (M. 22, 400).
- $C_9H_{18}$  \*3) Propylhexahydrobenzol. Sd. 155--156°<sub>730</sub> (B. 34, 2034; C. 1901 [1] 818; 1901 [2] 202).
- \*7) 1,2,4-Trimethylhexahydrobenzol. Sd. 145--146° (C. 1901 [1] 818; 1901 [2] 201).
- \*8) 1,3,5-Trimethylhexahydrobenzol. Sd. 140--142° (137--139°) (C. 1901 [1] 818; 1901 [2] 201; Am. 25, 259, 302).
- 25)  $\beta$ -Nonen. Sd. 147--148° (B. 35, 2145 C. 1902 [2] 260).
- 26) 1-Methyl-4-Aethylhexahydrobenzol. Sd. 150° (C. 1901 [2] 202).
- 27) 1-1-Methyl-3-Aethylhexahydrobenzol. Sd. 148--149°<sub>743</sub> (B. 35, 2680 C. 1902 [2] 589).

## — 9 II —

- $C_9H_8O$  \*3) Aldehyd d. Phenyläthin- $\alpha$ -Carbonsäure. Sd. 127--128°<sub>28</sub> (C. r. 133, 106).
- $C_9H_8O_2$  \*1) Methylenäther d. 3,4-Dioxyphenyläthin. Ag (B. 34, 1470).
- \*6) Phenyläthincarbonsäure (B. 34, 3647).

- $C_9H_6O_2$  \*9) 1,4-Benzpyron. (2HCl,  $PtCl_4$ ) (Soc. 81, 420 C. 1902 [1] 757, 998; B. 35, 2889 C. 1902 [2] 1054).
- $C_9H_6O_3$  14) 6-Oxy-1,4-Benzpyron. Sm. 243—244° (B. 35, 2549 C. 1902 [2] 597).
- 15) 7-Oxy-1,4-Benzpyron. Sm. 218° (B. 34, 2479).
- $C_9H_6O_4$  \*1) Aesculetin. Sm. 268° u. Zers. (B. 34, 2608).
- 12) 5,7-Dioxy-1,4-Benzpyron. Sm. 273° (B. 35, 863 C. 1902 [1] 812).
- $C_9H_6O_5$  \*3) 3,4-Dioxybenzylmethylenäther-1-Ketocarbonsäure. Sm. 145° (C. 1902 [1] 1057).
- $C_9H_7N$  \*1) Chinolin. +  $BiCl_3$ , (HCl,  $BiCl_3$ ), (HCl, AgCl), +  $BiJ_3$ , (HCl,  $BiJ_3$ ). 3 +  $TiCl_3$ , (2HCl,  $TiCl_3$ ), (2HJ,  $TiJ_3$ ) (B. 34, 417, 805; B. 35, 665 C. 1902 [1] 727; B. 35, 1113 C. 1902 [1] 937; B. 35, 1955 C. 1902 [2] 127; Ar. 240, 386 C. 1902 [2] 649).
- \*2) Isochinolin. Salze siehe (Ar. 240, 386 C. 1902 [2] 649).
- $C_9H_8O$  15)  $\gamma$ -Oxy- $\alpha$ -Phenylpropin (Phenylpropionalkohol). Sd. 135—136°<sub>13</sub> (C. 1901 [2] 25; Bl. [3] 27, 364 C. 1902 [1] 1319).
- $C_9H_8O_2$  \*3) 5-Oxy-2-Methylbenzofuran. Sm. 103° (B. 34, 361).
- \*7) Zimmtsäure. Sm. 133° (M. 22, 696).
- \*9) Allozimmtsäure. Sm. 68°. Ca + 3H<sub>2</sub>O, Sr + 3H<sub>2</sub>O, Cd + 2H<sub>2</sub>O, Mn + 2H<sub>2</sub>O (B. 34, 3656; G. 31 [2] 76).
- \*17) Aldehyd d. Benzoylessigsäure (B. 34, 3891 C. 1902 [1] 122).
- 26) 2-Keto-1-Methyl-1,2-Dihydrobenzofuran. Sd. 163—165°<sub>10</sub> (B. 35, 3565 C. 1902 [2] 1313).
- 27) isom. Isozimmtsäure. Sm. 36—37°. Ca + 3H<sub>2</sub>O, Ba + 2H<sub>2</sub>O, Sr + 2H<sub>2</sub>O, Cd, Mn + 3H<sub>2</sub>O (B. 34, 3653). — \*II, 858.
- $C_9H_8O_3$  \*1) 3,4-Methylenäther d. Methyl-3,4-Dioxyphenylketon (Acetopiperon). Sm. 87—88° (B. 34, 1471; C. 1902 [1] 1057).
- \*5)  $\beta$ -[4-Oxyphenyl]akrylsäure. Sm. 206° (A. 322, 223 C. 1902 [2] 276).
- \*18) Essigbenzolkarbonsäureanhydrid. Sd. 125—140°<sub>12</sub> (C. 1901 [1] 347).
- 30) 1-Methylbenzol-2-Ketocarbonsäure (C. 1901 [2] 938).
- $C_9H_8O_4$  \*2) Acetylbenzoylsuperoxyd. Sm. 40—41° (Am. 27, 161 C. 1902 [1] 931).
- \*13) 4-Oxybenzylmethylenäther-1-Ketocarbonsäure + H<sub>2</sub>O. Sm. 40° (88—89° wasserfrei). Na + H<sub>2</sub>O, Ba, Ag (Bl. [3] 25, 449).
- 45) 6,7-Dioxy-3,4-Dihydro-1,2-Benzpyron (Dihydroäsculetin). Sm. 198 bis 200° (B. 35, 2921 C. 1902 [2] 1046).
- 46) Pannarsäure +  $1\frac{1}{2}$  (2) H<sub>2</sub>O. Sm. 224° wasserfrei (J. pr. [2] 63, 541).
- 47) Anhydrid d.  $\alpha$ -Ketodimethyleyklopentandicarbonsäure. Sm. 152° (Soc. 79, 778).
- 48) Monomethylester d. Benzol-1,3-Dicarbonsäure. Sm. 126° (M. 22, 437).
- $C_9H_8O_5$  \*11) 5-Oxy-1-Methylbenzol-2,4-Dicarbonsäure. Sm. 295—300° (G. 31 [1] 152).
- \*30) 1-Methylester d. 2-Oxybenzol-1,4-Dicarbonsäure. Sm. 206—208° (M. 23, 333 C. 1902 [2] 201).
- \*31) 4-Methylester d. 2-Oxybenzol-1,4-Dicarbonsäure. Sm. 175—176,5° (M. 23, 334 C. 1902 [2] 201; M. 23, 383 C. 1902 [2] 203).
- 32)  $\alpha$ -[2-Furanyl]propen- $\beta\gamma$ -Dicarbonsäure (Faritakonsäure). Zers. bei 205—215°. Ca + 4H<sub>2</sub>O, Ba + H<sub>2</sub>O, Ag<sub>2</sub> (B. 34, 1628).
- 33) Monomethylester d. 4-Oxybenzol-1,2-Dicarbonsäure. Sm. 166° (M. 23, 324 C. 1902 [2] 201; M. 23, 398 C. 1902 [2] 204).
- 34) Dimethylester d. 2-Carboxybenzol-1-Carbonsäure. Sd. 275—278° (D.R.P. 60716). — \*II, 890.
- $C_9H_8O_6$  5)  $\alpha\gamma\epsilon\eta$ -Dilaktat d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\beta\epsilon$ -Heptadien- $\gamma\epsilon$ -Dicarbonsäure (Methylenbistetronsäure). Sm. 245° u. Zers. Ca + 3H<sub>2</sub>O (A. 315, 151).
- $C_9H_8N_2$  \*3) 4-Phenylpyrazol. Sm. 228° (B. 35, 34 C. 1902 [1] 424).
- \*4) 5-Phenylpyrazol. Sm. 78°; Sd. 305—307°<sub>799</sub> (B. 35, 36 C. 1902 [1] 424; B. 35, 42 C. 1902 [1] 425).
- $C_9H_8N_3$  \*3) 3-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 86,5° (B. 35, 749 C. 1902 [1] 718).
- \*4) 5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 191° (J. pr. [2] 64, 239).
- 16) 5-[P-Amidophenyl]pyrazol. Sm. 104°; Sd. 290—300°<sub>13</sub>. HCl, (2HCl,  $PtCl_4$ ), Sulfat, Oxalat + H<sub>2</sub>O, Pikrat +  $1\frac{1}{2}$  H<sub>2</sub>O (B. 35, 39 C. 1902 [1] 425).
- 17) 5-Methyl-1-Phenyl-1,2,3-Triazol. Sm. 64° (B. 35, 1033 C. 1902 [1] 879).

- C<sub>8</sub>H<sub>9</sub>N<sub>3</sub>** 18) 1-Methyl-2-Phenyl-1,3,4-Triazol. Sm. 112—113° (*Soc.* 79, 668).  
 19) 1-[2-Methylphenyl]-1,3,4-Triazol. Sm. 104°. (2HCl, PtCl<sub>4</sub>), 2 + PtCl<sub>4</sub>, Pikrat (*G.* 31 [2] 115).  
 20) 1-[4-Methylphenyl]-1,3,4-Triazol + 1½H<sub>2</sub>O. Sm. 83°. (2HCl, PtCl<sub>4</sub>), 2 + PtCl<sub>4</sub>, Pikrat (*G.* 31 [2] 112).  
**C<sub>8</sub>H<sub>9</sub>Cl** 21) Nitril d. α-Phenylhydrazonpropionsäure. Sm. 150—151° (*Bl.* [3] 25, 695; *Bl.* [3] 27, 194 *C.* 1902 [1] 194).  
 2) α-Chlor-β-Phenylpropen. Sd. 213—215° (*C. r.* 134, 775 *C.* 1902 [1] 1093).  
**C<sub>8</sub>H<sub>9</sub>Br** 4) α-Brom-β-Phenylpropen? (*C. r.* 134, 845 *C.* 1902 [1] 1161).  
**C<sub>8</sub>H<sub>10</sub>O** \*1) Zimmtalkohol (*C. r.* 133, 823 *C.* 1902 [1] 21).  
 \*2) α-[4-Oxyphenyl]propen. Sm. 81° (*B.* 34, 1812).  
 \*11) Methylbenzylketon (*Soc.* 81, 1186).  
 \*15) Aldehyd d. α-Phenylpropionsäure (*C. r.* 134, 845 *C.* 1902 [1] 1161).  
 \*17) Aldehyd d. 1,2-Dimethylbenzol-4-Carbonsäure (*C. r.* 133, 635).  
 \*20) Aldehyd d. 1,4-Dimethylbenzol-2-Carbonsäure. Sd. 219—229° (*C.* 1901 [2] 772).  
 23) Phenyläther d. β-Oxypropen. Sd. 170° (*Soc.* 79, 1190).  
 24) 4-Oxy-2,3-Dihydroinden. Sd. 244—246° (*B.* 34, 1258).  
 25) Verbindung (aus Methylphedrinjodmethylat). Sd. 205—210° (*Ar.* 240, 497 *C.* 1902 [2] 1327).  
**C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>** \*11) Methyläther d. Methyl-4-Oxyphenylketon. Sm. 38° (32°) (*Bl.* [3] 25, 449; *C. r.* 133, 742).  
 \*17) β-Phenylpropionsäure. Ca, Ba (*B.* 34, 3657).  
 \*29) 1,4-Dimethylbenzol-2-Carbonsäure. Sm. 124—125° (*C.* 1901 [2] 772).  
 \*36) Aldehyd d. 4-Oxybenzoläthyläther-1-Carbonsäure. Sm. 13—14°; Sd. 139—140°<sub>30</sub> (*M.* 22, 499 Anm.).  
 \*39) Methylester d. 1-Methylbenzol-2-Carbonsäure. Sm. —54 bis —51°; Sd. 213°<sub>750</sub> (*R.* 20, 169).  
 \*40) Methylester d. 1-Methylbenzol-3-Carbonsäure. Sd. 220,5—221°<sub>758</sub> (*R.* 20, 162).  
 \*41) Methylester d. 1-Methylbenzol-4-Carbonsäure. Sm. 34° (*M.* 22, 425; *R.* 20, 156).  
 \*43) Äthylester d. Benzolcarbonsäure (*B.* 35, 1117 *C.* 1902 [1] 924).  
 \*46) 4-Methylphenylester d. Essigsäure (*Bl.* [3] 27, 84 *C.* 1902 [1] 586).  
 53) Äthyl-2-Oxyphenylketon. Sd. 115°<sub>15</sub> (*C.* 1902 [2] 216).  
 54) Aldehyd d. 4-Oxy-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 119 bis 120° (*B.* 35, 470 *C.* 1902 [1] 647).  
 55) Aldehyd d. 5-Oxy-1,4-Dimethylbenzol-2-Carbonsäure. Sm. 129 bis 130° (132—133°) (*B.* 35, 471 *C.* 1902 [1] 647).  
**C<sub>8</sub>H<sub>10</sub>O<sub>3</sub>** \*8) α-Oxy-α-Phenylpropionsäure + ½H<sub>2</sub>O. Sm. 67—68° (91°?) (*C. r.* 135, 628 *C.* 1902 [2] 1359).  
 \*10) d-Tropasäure. Sm. 126—127° (*Ar.* 240, 501 *C.* 1902 [2] 1327).  
 \*11) l-Tropasäure. Sm. 126° (*Ar.* 240, 501 *C.* 1902 [2] 1327).  
 \*70) Methylester d. 3-Oxybenzylmethyläther-1-Carbonsäure. Sm. 239 bis 241°<sub>718</sub> (*B.* 35, 3026 *C.* 1902 [2] 1114).  
 88) α-[4-Oxyphenyl]propionsäure. Sm. 130°. Na + 3H<sub>2</sub>O, Ca, Ba, Zn, Cu (*C.* 1901 [1] 1160; 1902 [1] 1056).  
 89) d-α-[4-Oxyphenyl]propionsäure (*C.* 1901 [1] 1161).  
 90) l-α-[4-Oxyphenyl]propionsäure (*C.* 1901 [1] 1161).  
 91) 4-Oxy-1-Äthylbenzol-2-Carbonsäure? Sm. 172° (*A.* 319, 342 *C.* 1902 [1] 351).  
 92) Aldehyd d. 6-Oxy-3-Oxymethyl-1-Methylbenzol-5-Carbonsäure. Sm. 83° (*B.* 34, 2458).  
**C<sub>8</sub>H<sub>10</sub>O<sub>4</sub>** \*46) Äthylester d. 2-Furanoylessigsäure. Sd. 142—143°<sub>10</sub> (*Bl.* [3] 25, 440).  
 \*49) 4-Oxy-1-Methoxymethylbenzol-3-Carbonsäure. Sm. 119° (*B.* 35, 129 *C.* 1902 [1] 465).  
 \*50) Oxyessig-[3-Methoxyphenyl]äthersäure. Sm. 118° (*Soc.* 79, 1409).  
 52) α-[3,4-Dioxyphenyl]propionsäure. Sm. 97° (*C.* 1902 [1] 1057).  
 53) 1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure. Sm. 203—209° (*B.* 34, 2473).  
 54) Methylester d. 4,6-Dimethyl-1,2-Pyron-5-Carbonsäure (*M. d.* Iso-dehydracetsäure). Sm. 67—67,5°; Sd. 167°<sub>14</sub> (*A.* 259, 156; *B.* 35, 790 *C.* 1902 [1] 761). — I, 776.

- $C_9H_{10}O_4$  55) Methoxymethylester d. 2-Oxybenzol-1-Carbonsäure (Mesotan). Sd. 162°<sub>13</sub> (C. 1902 [2] 1387).
- 56) Acetat d. p-Oxy-2,6-Dimethyl-1,4-Pyron. Sm. 98° (Soc. 81, 1006 C. 1902 [2] 371).
- $C_9H_{10}O_5$  \*3) 3,4,5-Trioxymethyl-3,5-Dimethyläther-1-Carbonsäure. Sm. 198 bis 199° (C. 1901 [2] 725).
- \*12) Aethylester d. 3,4,5-Trioxymethyl-1-Carbonsäure + 2 $\frac{1}{2}$ H<sub>2</sub>O. Sm. 147° (155°) (158° wasserfrei) (M. 22, 432; G. 31 [2] 355 C. 1902 [1] 38; G. 32 [1] 562 C. 1902 [2] 639).
- \*13)  $\alpha$ -[2-Furanyl]propan- $\beta\gamma$ -Dicarbonsäure. Sm. 141–142° (B. 34, 1629).
- \*14)  $\alpha$ -Ketodimethylcyclopentandicarbonsäure. Sm. 180°. Ag<sub>2</sub> (Soc. 79, 778).
- \*15) isom. Ketodimethylcyclopentandicarbonsäure. Sm. 153–155°; Zers. bei 165° (Soc. 79, 779).
- 17) 2,4,6-Trioxymethyl-1-Methylbenzol-6-Methyläther-3-Carbonsäure. Sm. 147° (M. 23, 110; C. 1902 [1] 1100).
- 18) 2,4,6-Trioxymethylbenzol-2,4-Dimethyläther-1-Carbonsäure. Sm. 152 bis 154° u. Zers. Ba (M. 23, 95 C. 1902 [1] 1099).
- 19) 3,4,5-Trioxymethylbenzol-3,4-Dimethyläther-1-Carbonsäure. Sm. 189 bis 192° (M. 23, 704 C. 1902 [2] 1107).
- 20)  $\beta$ -[2-Furanyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 134–135° (B. 35, 394 C. 1902 [1] 569).
- 21) 3,4-Anhydrid d. 1,1-Dimethyl-R-Tetramethylen-2,3,4-Tricarbonsäure. Sm. 207–210° (Soc. 79, 769).
- 22) Methylester d. 2,4,6-Trioxymethyl-1-Methylbenzol-3-Carbonsäure. Sm. 144–145° (M. 23, 99 C. 1902 [1] 1099).
- 23) Methylester d. 2,3,4-Trioxymethylbenzol-4-Methyläther-1-Carbonsäure. Sm. 101–104° (M. 23, 706 C. 1902 [2] 1107).
- 24) Methylester d. 2,4,6-Trioxymethylbenzol-4-Methyläther-1-Carbonsäure. Sm. 114–116° (M. 22, 230; M. 23, 88 C. 1902 [1] 1098).
- 25) Methylester d. 3,4,5-Trioxymethylbenzol-4-Methyläther-1-Carbonsäure. Sm. 143–146° (M. 23, 702 C. 1902 [2] 1106).
- $C_9H_{10}O_6$  4) 1,2,3,4-Tetrahydrobenzol-1,3,5-Tricarbonsäure (Tetrahydrotrimesinsäure). Sm. 210° (C. 1901 [1] 823).
- $C_9H_{10}O_8$  2) Triformal-d-Zuckersäure (R. 20, 340).
- $C_9H_{10}N_2$  \*14) 1,5-Dimethylbenzimidazol. Tartrat (J. pr. [2] 63, 356).
- 31) 4,6-Dimethylbenzimidazol. Sm. 175°. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 4205 C. 1902 [1] 262).
- 32) Nitril d. 2,4-Dimethylphenylamidoameisensäure. Sm. 109–110° (J. pr. [2] 64, 378 C. 1902 [1] 1329).
- 33) Nitril d. 2,5-Dimethylphenylamidoameisensäure. Sm. 118° (Am. 28, 154 C. 1902 [2] 794).
- $C_9H_{10}N_4$  \*4) 4-Amido-1-Phenyl-3-Methyl-1,2,5-Triazol. Sm. 83,5° (J. pr. [2] 64, 228).
- $C_9H_{10}Br_2$  \*2)  $\alpha\beta$ -Dibrompropylbenzol. Sm. 66° (Bl. [3] 25, 241).
- 12)  $\alpha\beta$ -Dibromisopropylbenzol ( $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropan). Sd. 115°<sub>15</sub> (140°<sub>15</sub>) (C. 1901 [2] 624; C. r. 134, 845 C. 1902 [1] 1161; B. 35, 2640 C. 1902 [2] 586).
- $C_9H_{10}S_2$  \*2) Methylenäther d. 1,2-Di[Merkaptomethyl]benzol. Sm. 152–153° (J. pr. [2] 64, 527 C. 1902 [1] 259; B. 35, 1392 C. 1902 [1] 1096).
- \*3) Methylenäther d. 1,3-Di[Merkaptomethyl]benzol. Sm. 73° (J. pr. [2] 64, 527 C. 1902 [1] 260).
- \*4) Methylenäther d. 1,4-Di[Merkaptomethyl]benzol. Sm. 149–150° (J. pr. [2] 64, 528 C. 1902 [1] 260).
- \*6) d-1-1-Amido-2,3-Dihydroinden.  $\alpha$ -Camphersulfonat, d-Oxy-cis- $\pi$ -Camphanat, d-1-Mandelsaures Salz, d-Tartrat + H<sub>2</sub>O (Soc. 79, 370, 437, 442; Soc. 81, 583 C. 1902 [1] 863, 1322).
- 19)  $\alpha$ -Phenylimidopropan (Propylidenanilin). + NaHSO<sub>3</sub> (A. 316, 129).
- 20) isom. Anhydroformaldehyd-p-Xylidin. Sm. 85–90° (C. 1901 [2] 73).
- \*3) 3,5-Diimido-2-Methyl-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 208°. HJ (G. 31 [1] 483).
- $C_9H_{11}Cl$  \*4)  $\alpha$ -Chlorisopropylbenzol. Fl. (B. 35, 2638 C. 1902 [2] 585).
- 12) 4-[ $\alpha$ -Chloräthyl]-1-Methylbenzol. Fl. (B. 35, 2248 C. 1902 [2] 273).
- $C_9H_{11}Br$  \*3) 2-Brom-1-Isopropylbenzol. Sd. 220° (Bl. [3] 25, 848).



- C<sub>9</sub>H<sub>11</sub>Br** 13)  $\alpha$ -Bromisopropylbenzol. Fl. (C. 1902 [2] 578).
- C<sub>9</sub>H<sub>11</sub>J** 5)  $\alpha$ -Jodisopropylbenzol. Fl. (B. 35, 2638 C. 1902 [2] 585).
- 6)  $\beta$ -[4-Jodphenyl]- $\beta$ -Buten. Sm. 45–46°; Sd. 155°<sub>23</sub> (B. 35, 2642 C. 1902 [2] 586).
- C<sub>9</sub>H<sub>11</sub>F** 2) 2-Fluor-1,3,5-Trimethylbenzol. Sd. 171–172° (B. 25, 1525). — \*II, 24.
- C<sub>9</sub>H<sub>10</sub>O** \*1)  $\alpha$ -Oxypropylbenzol (C. 1901 [2] 623).
- \*3)  $\gamma$ -Oxypropylbenzol. Sd. 235° (C. 1901 [1] 69).
- \*28)  $\alpha$ -Oxyisopropylbenzol ( $\beta$ -Oxy- $\beta$ -Phenylpropan; Dimethylphenylcarbinol). Sm. 23°; Sd. 89–90°<sub>10</sub> (215–220° u. Zers.) (C. 1901 [1] 930, 1357; 1901 [2] 623, 624; Bl. [3] 25, 847; B. 35, 2637 C. 1902 [2] 585).
- 31) 3-Oxy-1-norm. Propylbenzol. Sd. 228° (B. 23, 1162). — II, 761; \*II, 447.
- 32) 4-[ $\alpha$ -Oxyäthyl]-1-Methylbenzol. Sd. 120°<sub>19</sub> (B. 35, 2247 C. 1902 [2] 273).
- 33) 2-Oxy-*p*-Aethyl-1-Methylbenzol. Sd. 220° (D.R.P. 61575). — \*II, 458.
- 34) Methyläther d. 4-Oxy-1-Aethylbenzol. Sd. 199–200° (B. 34, 1262).
- C<sub>9</sub>H<sub>10</sub>O<sub>2</sub>** \*9) 5-Oxy-4-Oxymethyl-1,2-Dimethylbenzol. Sm. 116° (B. 35, 137 Ann.).
- \*15) Dimethyläther d. Dioxymethylbenzol. Sd. 194–196° (Soc. 79, 1213).
- \*39) 2,3,5,6-Tetramethyl-1,4-Pyron (B. 34, 4116 C. 1902 [1] 314).
- 40) 1- $\alpha$ -Oxy- $\alpha$ -[2-Oxyphenyl]propan. Fl. (C. 1902 [2] 215).
- 41) i- $\alpha$ -Oxy- $\alpha$ -[2-Oxyphenyl]propan. Sd. 125–130°<sub>0,25</sub> (C. 1902 [2] 216).
- 42)  $\alpha$ - $\beta$ -Dioxyphenylbenzol ( $\alpha$ - $\beta$ -Dioxy- $\beta$ -Phenylpropan). Sm. 37–38° (C. r. 134, 845 C. 1902 [1] 1161).
- 43) 4-Oxy-5-Oxymethyl-1,3-Dimethylbenzol. Sm. 57–58° (B. 35, 3844 C. 1902 [2] 1454).
- 44) Phenol (aus Asarum canadense). Sd. 248–252° (Soc. 81, 60 C. 1902 [1] 120).
- 45) Monopropyläther d. 1,2-Dioxybenzol. Sd. 223–226° (D.R.P. 92651). — \*II, 547.
- 46) 3-Methyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sm. 170–172°. Ag (A. 323, 139 C. 1902 [2] 842).
- C<sub>9</sub>H<sub>10</sub>O<sub>3</sub>** 47) Säure (aus Trichlormethylparakonsäure). Sm. 126–127° (C. 1902 [2] 343).
- \*5) 2,4,6-Trioxo-1,3,5-Trimethylbenzol + 3H<sub>2</sub>O. Sm. 183–184° (A. 318, 286).
- \*8) 2,4-Dimethyläther d. 2,4,6-Trioxo-1-Methylbenzol (M. 22, 1002 C. 1902 [1] 186).
- \*23) Anhydrid d. cis-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbon-säure (A. d. cis-Pyrocampheensäure). Sm. 174–175° (176–177°) (B. 34, 2474; A. 315, 291).
- \*29) Methylester d. Filicinsäure. Sm. 205–207° (M. 23, 114 C. 1902 [1] 1101).
- \*30) Ketotrimethyldicyklopentancarbonsäure. Sm. 134° (Soc. 79, 787).
- 32) 2-Methyläther d. 2,4,6-Trioxo-1,3-Dimethylbenzol. Sm. 147–148° (M. 23, 104 C. 1902 [1] 1100).
- 33) 4-Aethyläther d. 2,4,6-Trioxo-1-Methylbenzol. Sm. 136–137°; Sd. 195–200°<sub>13</sub> (M. 23, 565 C. 1902 [2] 738).
- C<sub>9</sub>H<sub>12</sub>O<sub>4</sub>** \*25) Anhydrid d. 2-Oxy-1,1-Dimethyl-R-Trimethylenäthyläther-2,3-Dicarbon-säure. Sd. 160–165°<sub>20</sub> (Soc. 79, 760).
- 28) 2,2-Dimethyl-2,3-Dihydro-R-Penten-1,3-Dicarbon-säure. Sm. 203 bis 205° (B. 34, 2473).
- C<sub>9</sub>H<sub>12</sub>O<sub>6</sub>** \*12) Trimethylester d. trans-R-Trimethylen-1,2,3-Tricarbon-säure. Sm. 56–57° (B. 34, 996).
- 16)  $\beta$ -Camphoransäure + 2H<sub>2</sub>O ( $\beta$ -Oxycamphoronsäure). Sm. 183–186°; + H<sub>2</sub>O (Sm. 250,9°); subl. bei 140–150°. K<sub>2</sub> +  $\frac{1}{2}$ H<sub>2</sub>O, Ba + 4H<sub>2</sub>O, Ba<sub>3</sub>, Pb<sub>3</sub>, Ag<sub>2</sub> + H<sub>2</sub>O (A. 191, 152; 299, 157; J. 1877, 642; Ph. Ch. 3, 404; 25, 193; M. 9, 720; B. 28, 21, 320; Soc. 81, 23 C. 1902 [1] 420). — I, 844; \*I, 430.
- 17)  $\alpha$  $\gamma$ -Lakton d.  $\alpha$ -Oxy- $\beta$  $\beta$ -Dimethylbutan- $\alpha$  $\gamma$  $\delta$ -Tricarbon-säure? Sm. 158° (Soc. 79, 765).
- 18)  $\alpha$  $\gamma$ -Lakton d.  $\gamma$ -Oxy- $\beta$  $\beta$ -Dimethylbutan- $\alpha$  $\gamma$  $\delta$ -Tricarbon-säure? Sm. 188–190° u. Zers. (Soc. 79, 764).
- 19)  $\gamma$ -Lakton d.  $\alpha$  $\beta$ -Diacetoxy- $\gamma$ -Oxyvaleriansäure. Sm. 94–95° (A. 319, 195 C. 1902 [1] 106).

- $C_9H_{12}O_7$  7) **Triformal-l-Gulonsäure**. Fl. (R. 20, 341).  
 $C_9H_{12}O_8$  5) **Pentan- $\alpha\beta\delta\epsilon$ -Tetracarbonsäure**. Sm. 214—216°.  $Ag_4$  (J. pr. [2] 66, 114 C. 1902 [2] 733).  
 $C_9H_{12}N_2$  18)  **$\alpha$ -Hydrazon- $\alpha$ -[4-Methylphenyl]äthan**. Sm. 131—132° (B. 35, 1070 C. 1902 [1] 929).  
 $C_9H_{12}N_4$  5)  **$\alpha$ -Aethylidenamido- $\alpha$ -Phenylguanidin**.  $HNO_3$  (G. 31 [1] 521).  
 $C_9H_{12}Cl_2$  1) **3,5-Dichlor-1,1,6-Trimethyl-1,2-Dihydrobenzol**. Sm. 77° (Soc. 79, 144).  
 $C_9H_{10}N$  \*18) **3-Dimethylamido-1-Methylbenzol**. Sd. 206° (B. 35, 3538 C. 1902 [2] 1503).  
\*26) **5-Amido-1,2,3-Trimethylbenzol**. Sm. 79—80° (A. 322, 380 C. 1902 [2] 736).  
\*49) **Nitril d. Säure  $C_9H_{14}O_2$**  (aus D-d-Feuchocamphoronoxim). Sd. 212 bis 215° (A. 315, 289).  
50) **Nitril d. Säure  $C_9H_{14}O_2$**  (aus d. Verb.  $C_{10}H_{14}ONBr$ ). Sd. 198—199°<sub>760</sub> (Soc. 75, 1148). — \*I, 810.  
 $C_9H_{13}N_3$  \*2)  **$\alpha$ -Methylimido- $\alpha$ -[ $\beta$ -Phenylhydrazido]äthan** (B. 35, 3272 C. 1902 [2] 1251).  
 $C_9H_{15}As$  1) **Dimethyl-4-Methylphenylarsin**. Sd. 220° (A. 320, 304 C. 1902 [1] 920).  
 $C_9H_{14}O$  \*5) **Isoacetophoron**. Sd. 211—213° (A. 322, 379 C. 1902 [2] 736; B. 35, 2322 C. 1902 [2] 434; D.R.P. 134982 C. 1902 [2] 1164).  
\*6) **Campherphoron** (B. 35, 1021 C. 1902 [1] 933).  
\*14) **Camphenilon** (C. 1902 [2] 592).  
\*20) **Sabinenketon** (B. 35, 2047 C. 1902 [2] 123).  
22)  **$\alpha$ -Oxy- $\beta$ -Nonin** (Hexylpropiolalkohol). Sd. 114—116°<sub>17</sub> (Bl. [3] 27, 363 C. 1902 [1] 1319).  
23) **4-Keto-6-Methyl-2-Aethyl-1,2,3,4-Tetrahydrobenzol**. Sd. 232° (A. 323, 146 C. 1902 [2] 842).  
24) **4-Keto-1,1,5-Trimethyl-1,2,3,4-Tetrahydrobenzol** (Trimethylcyclohexanon). Sd. 195—196° (C. 1902 [1] 1295; A. 324, 104 C. 1902 [2] 1200).  
25) **2-Acetyl-5-Methyl-1,2,3,4-Tetrahydrobenzol**. Sd. 205—206° C. 1902 [1] 1294; B. 35, 2151 C. 1902 [2] 279; A. 324, 89 C. 1902 [2] 1201).  
26) **Pulegonon**. Sd. 189—190° (C. 1902 [1] 1295).  
27) **Keton** (aus Atlascederöl). Fl. (C. r. 135, 583 C. 1902 [2] 1257).  
 $C_9H_{14}O_2$  \*4) **1,3-Dimethyl- $\beta$ -Tetrahydrobenzol-4-Carbonsäure**. Sm. 103°; Sd. 254—255° (Soc. 71, 173; 79, 339, 359). — \*II, 710.  
\*6) **Lauronolsäure** (B. 35, 1288 C. 1902 [1] 1102).  
\*7) **Isolauronolsäure**. Sm. 134—134,5°; Sd. 244,5—245° (C. 1902 [1] 33; Bl. [3] 25, 77; B. 35, 1288 C. 1902 [1] 1102; Am. 27, 426 C. 1902 [2] 365).  
\*9) **cis-trans-Campholytische Säure** (Bl. [3] 25, 80; Am. 27, 426 C. 1902 [2] 365).  
\*18) **Pseudocampholakton**. Sd. 258° (Soc. 79, 332).  
\*25) **3-Keto-4-Acetyl-1-Methylhexahydrobenzol** (Bl. [3] 25, 197).  
\*26) **3,5-Diketo-1,1,2-Trimethylhexahydrobenzol**. Sm. 99,5—100°. Ag (Soc. 79, 143).  
\*28) **1-Methylhexahydrobenzol-3-Methylencarbonsäure**. Sd. 146°<sub>18</sub> (Bl. [3] 27, 600 C. 1902 [2] 363).  
\*38) **Lakton d. isom. Oxydihydrocampholytischen Säure** (Campholytolakton). Sm. 115—116° (Bl. [3] 25, 81).  
40)  **$\epsilon$ -Diketo- $\gamma$ -Methyl- $\alpha$ -Okten**. Sd. 97—99°<sub>10</sub> (Bl. [3] 27, 65 C. 1902 [1] 566).  
41) **6-Oxy-4-Keto-2-Isopropyl-1,2,3,4-Tetrahydrobenzol +  $H_2O$**  (3,5-Diketo-1-Isopropylhexahydrobenzol). Sm. 67,5°. Ag (C. 1901 [2] 415; 1902 [1] 1292; Soc. 81, 678 C. 1902 [2] 115).  
42) **4,5-Dioxy-1,1,3-Trimethyl-1,2-Dihydrobenzol**. Sm. 91—92° (A. 322, 362 C. 1902 [2] 735).  
43) **Methyläther d. 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol**. Sd. 132—134°<sub>15</sub> (A. 322, 253 C. 1902 [2] 270).  
44)  **$\alpha$ -Oktin- $\alpha$ -Carbonsäure** (Hexylpropionsäure). Sm. —10°; Sd. 153 bis 156°<sub>18—19</sub> (C. 1901 [1] 1149; D.R.P. 132802 C. 1902 [2] 169).  
45) **1,3-Dimethyl- $\beta$ -Tetrahydrobenzol-4-Carbonsäure**. Sm. 72°; Sd. 147—149°<sub>20</sub> (Soc. 79, 351). — \*II, 710.

$C_9H_{14}O_2$

- 46) i- $\alpha$ -Campholytische Säure. Fl. (*Am.* 27, 432 *C.* 1902 [2] 366).
- 47)  $\Delta^8$ -Campholytsäure. Sm. 90—91° (*Am.* 26, 289).
- 48) r- $\alpha$ -Campholytsäure. Sm. 31°; Sd. 127—128°<sub>14</sub> (*Soc.* 77, 380; *Am.* 26, 285).
- 49) Fenchocamphoronsäure. Sd. 177—182°<sub>100</sub> (*A.* 315, 290).
- 50) Infracampholensäure. Sd. 239°<sub>758</sub> (*Soc.* 79, 113).
- 51) Lakton d. 1-Oxy-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm. 44°; Sd. 260°<sub>758</sub> (*Soc.* 79, 347). — \*II, 882.
- 52) Lakton d. isom. 1-Oxy-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sd. 261—262°<sub>748</sub> (*Soc.* 79, 345). — \*II, 882.
- 53) Dihydrolaurolakton. Sm. 32° (*B.* 35, 1291 *C.* 1902 [1] 1103).
- 54) Methylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 107°<sub>20</sub> (*C.* 1901 [1] 1149; D.R.P. 133631 *C.* 1902 [2] 553).
- 55) Aethylester d. 2,3-Dihydro-R-Penten-4-Methylcarbonsäure? Sd. 82—84°<sub>11</sub> (*C.* 1902 [1] 1222; *A.* 323, 159 *C.* 1902 [2] 843).
- 56) Aethylester d. 1,2,3,4-Tetrahydrobenzol-5-Carbonsäure. Sd. 206 bis 208° (*B.* 33, 3455). — \*II, 709.

$C_9H_{14}O_3$

- \*7) Camphononsäure. Sm. 228° (*Soc.* 79, 1292).
- \*10) Aethylester d. 2-Ketohexahydrobenzol-1-Carbonsäure. Sd. 107 bis 108°<sub>12</sub>. Cu (*A.* 317, 93).
- \*29) Aethylester d. 2-Keto-1-Methyl-R-Pentamethylen-1-Carbonsäure. Sd. 103°<sub>11</sub> (*A.* 317, 67).
- \*30) Aethylester d. 4-Keto-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 107—108°<sub>11—12</sub> (*A.* 307, 78).
- 31) Anhydrid d. mal. Heptan- $\gamma$ -Dicarbonsäure. Fl. (*C.* 1902 [2] 107).
- 32) Aethylester d. 2-Keto-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd. 108—109°<sub>13</sub> (*A.* 317, 73).
- 33) Aethylester d. Säure  $C_7H_{10}O_3$ . Sd. 237°<sub>732</sub> (*M.* 23, 859 *C.* 1902 [2] 1410).
- 34) Aethylester einer isom. Säure  $C_7H_{10}O_3$ . Sd. 120°<sub>15</sub> (*M.* 23, 863 *C.* 1902 [2] 1410).

$C_9H_{14}O_4$

- \*12)  $\alpha$ -Tanacetondicarbonsäure. Sm. 142—143° (*B.* 35, 2047 *C.* 1902 [2] 123).
- \*15) cis-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure (cis-Pyrocampensäure). Sm. 203,5—204,5°  $Ag_2$  (*B.* 34, 2474; *A.* 315, 291).
- \*16) trans-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure (trans-Pyrocampensäure). Sm. 187—188,5° (*B.* 34, 2474).
- \*17) 1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure (Mesopyrocampensäure). Sm. 160—170° (*B.* 34, 2473).
- \*35) Diäthylester d. Glutakonsäure. Na (*M.* 20, 546; *B.* 35, 1663 *C.* 1902 [1] 1320).
- \*50) Aethylester d.  $\beta\beta$ -Diacetylpropionsäure. Sd. 144—146°<sub>24</sub> (*C.* 1902 [2] 345).
- \*51) Monoäthylester d. Pilopinsäure. Sd. 290—300° (*Soc.* 79, 588).
- 53) cis-cis-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. Sm. 192 bis 194° u. Zers.  $Ca + 6H_2O, Ag_2$  (*B.* 34, 2574).
- 54) cis-trans-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. Sm. 204—205° u. Zers.  $Ca + \frac{1}{2}H_2O, Ag_2$  (*B.* 34, 2573).
- 55) Säure (aus d. Ketolakton  $C_{10}H_{16}O_3$  aus Thujamenthon). Sm. 94°; Sd. 205°<sub>13</sub>.  $Ag$  (*A.* 323, 362 *C.* 1902 [2] 1206).
- 56)  $\gamma\delta$ -Lakton d.  $\alpha$ -Oxy- $\beta$ -Methylpentan- $\gamma$ -Methylcarbonsäure- $\delta$ -Carbonsäure +  $H_2O$ . Sm. 52,5—53,5°; Sd. 205—206°<sub>12</sub>.  $Ag$  (*A.* 323, 344 *C.* 1902 [2] 1205).
- 57) Methylester d.  $\beta$ -Butyroxylpropen- $\alpha$ -Carbonsäure. Sd. 104—105°<sub>10</sub> (*Bl.* [3] 25, 648; *Bl.* [3] 27, 1050 *C.* 1902 [2] 1411).
- 58) Methylester d.  $\beta\delta$ -Diketoheptan- $\gamma$ -Carbonsäure (*M.* d. Butyrylacetyllessigsäure). Sd. 105°<sub>14</sub> Na, Cu (*Bl.* [3] 25, 648; *Bl.* [3] 27, 1048 *C.* 1902 [2] 1410).
- 59) Methylester d.  $\gamma$ -Acetyl- $\delta$ -Ketopentan- $\alpha$ -Carbonsäure. Sd. 160 bis 161°<sub>24</sub>. Cu (*C.* 1902 [2] 346).
- 60) Aethylester d.  $\beta$ -Propionoxylpropen- $\alpha$ -Carbonsäure (*Ae.* d. O-Propionylacetyllessigsäure). Sd. 121°<sub>23</sub>. Cu (*C.* r. 133, 820 *C.* 1902 [1] 28; *Bl.* [3] 27, 1049 *C.* 1902 [2] 1410; *Bl.* [3] 27, 1051 *C.* 1902 [2] 1411).
- 61) Aethylester d.  $\alpha\gamma$ -Diketohexan- $\alpha$ -Carbonsäure (*C.* 1902 [2] 189).

- $C_6H_{14}O_4$  62) Aethylester d.  $\beta\delta$ -Diketohehexan- $\gamma$ -Carbonsäure (Ae. d. C-Propionyl-acetessigsäure). Sd. 112—113 $^{\circ}_{30}$  (105—107 $^{\circ}_{12}$ ). Cu (C. r. 133, 820 C. 1902 [1] 28; B. 35, 922 C. 1902 [1] 806).
- $C_6H_{14}O_5$  \*19) Aethylester d.  $\gamma\epsilon$ -Diketo- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sd. 230 bis 232 $^{\circ}$  u. Zers. Ca, Cu, Ni (C. 1902 [2] 189).
- 25) Aldehyd d.  $\alpha\gamma$ -Diacetoxyl- $\beta$ -Methylpropan- $\gamma$ -Carbonsäure. Sd. 170 bis 174 $^{\circ}_{18}$  (M. 22, 448).
- $C_6H_{14}O_6$  \*15) Isocamphoronsäure. Sm. 166 $^{\circ}$  (168 $^{\circ}$ ) (C. 1901 [1] 222; Soc. 81, 257 C. 1902 [1] 809, 810).
- 28) 3,4-Dioxy-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure. Ba (B. 34, 2473).
- 29)  $\beta$ -Methylpentan- $\beta\gamma\epsilon$ -Tricarbonsäure. Sm. 137—138 $^{\circ}$ . Ag $_3$  (Soc. 81, 57 C. 1902 [1] 180, 409).
- 30)  $\beta\beta$ -Dimethylbutan- $\alpha\alpha\delta$ -Tricarbonsäure. Sm. 165—175 $^{\circ}$  u. Zers. Ca + 5H $_2$ O (C. 1901 [2] 535).
- 31)  $\gamma$ -Methylester d.  $\beta$ -Methylbutan- $\beta\gamma\delta$ -Tricarbonsäure (M. d.  $\alpha\alpha$ -Methyltricarbalysäure). Fl. Ag $_2$  (Soc. 81, 44 C. 1902 [1] 111; M. 23, 366 C. 1902 [2] 202).
- 32)  $\delta$ -Methylester d.  $\beta$ -Methylbutan- $\beta\gamma\delta$ -Tricarbonsäure. Fl. Ag $_2$  (Soc. 81, 44 C. 1902 [1] 111; M. 23, 366 C. 1902 [2] 202).
- $C_6H_{14}N_2$  \*15) 4-Amido-2-Dimethylamido-1-Methylbenzol. Sd. 257—259 $^{\circ}_{730}$  (Sd. oberh. 280 $^{\circ}$ ) (B. 35, 332 C. 1902 [1] 594; D.R.P. 128 754 C. 1902 [1] 610).
- 39) 4-Amido-3-Aethylamido-1-Methylbenzol. Sm. 59 $^{\circ}$  (B. 34, 4208 C. 1902 [1] 263).
- 40) 3,4-Di[ $\beta$ -Methylamido]-1-Methylbenzol. Sd. 259—260 $^{\circ}_{740}$ . HCl (B. 35, 1263 C. 1902 [1] 1062).
- 41) 4-Dimethylamido-1-Amidomethylbenzol. Fl. 2HCl (D.R.P. 134 979 C. 1902 [2] 1084).
- $C_6H_{15}N$  \*2) 1-Dimethylamido-2,3-Dihydro-R-Hepten ( $\alpha$ -Methyltropidin). Sd. 66 $^{\circ}_{10}$ . (2HCl, PtCl $_4$ ), (HCl, AuCl $_3$ ) (B. 34, 136; A. 317, 278).
- \*3) 5-Dimethylamido-2,3-Dihydro-R-Hepten ( $\beta$ -Methyltropidin) (A. 317, 271, 282).
- $C_6H_{16}O$  \*10) 5-Keto-1,1,3-Trimethylhexahydrobenzol (A. 324, 112 C. 1902 [2] 1201).
- 20) 2-[ $\alpha$ -Oxyäthyl]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 212—213 $^{\circ}$  (C. 1902 [1] 1294; A. 324, 93 C. 1902 [2] 1201).
- 21) Aethyläther d. 1-Oxy-2,3,4,5-Tetrahydro-R-Hepten. Sd. 173 bis 175 $^{\circ}_{721}$  (A. 317, 223).
- 22) 4-Keto-1,1,3-Trimethylhexahydrobenzol (Trimethylcyklohexanon). Sd. 191 $^{\circ}$  (C. 1902 [1] 1295; A. 324, 107 C. 1902 [2] 1201; A. 324, 113 C. 1902 [2] 1201).
- 23) 2-Keto-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. 183—184 $^{\circ}$  (B. 35, 1022 C. 1902 [1] 933).
- 24) 4-Keto-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. 180 $^{\circ}$  (A. 317, 89).
- 25) Sabinenalkohol (B. 35, 2049 C. 1902 [2] 123).
- 26) Dihydropulegenon. Sd. 188—189 $^{\circ}$  (C. 1902 [1] 1295).
- 27) Pulenon. Sd. 183 $^{\circ}$  (C. 1902 [1] 1294).
- $C_6H_{16}O_2$  \*2) Dimethylloxeton. Sd. 167—169 $^{\circ}$  (M. 22, 330).
- \*12) trans-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm. 75 $^{\circ}$ . Ag (Soc. 79, 350, 357).
- \*24) Aethylester d.  $\beta$ -Methyl- $\beta$ -Penten- $\epsilon$ -Carbonsäure. Sd. 182—185 $^{\circ}$  (C. 1902 [1] 630).
- \*36)  $\beta\delta$ -Diketononan (Caproylaceton). Sm. —18 $^{\circ}$ ; Sd. 98—100 $^{\circ}_{20}$  (C. r. 133, 821 C. 1902 [1] 29).
- 45) 1-Oxy-4-Acetyl-1-Methylhexahydrobenzol. Sd. 140—145 $^{\circ}_{19}$  (B. 35, 2152 C. 1902 [2] 279).
- 46) Oxyketon (aus Terpeneol). Sd. 140—145 $^{\circ}_{19}$  (C. 1901 [1] 1008).
- 47)  $\gamma$ -Aethyl- $\gamma$ -Hexen- $\zeta$ -Carbonsäure. Sd. 232—236 $^{\circ}$ . Ag (C. 1902 [1] 630).
- cis-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sd. 250—252 $^{\circ}$  (Soc. 79, 359). — II, 708.
- 49) 1,3-Dimethylhexahydrobenzol-5-Carbonsäure. Sd. 139 $^{\circ}_{15}$  (B. 35, 2689 C. 1902 [2] 591).

- $C_9H_{16}O_2$  50) 3-Methylhexahydrophenylelessigsäure. Sd.  $144^{19-20}_0$  (B. 34, 3886 C. 1902 [1] 110).  
 51)  $r$ - $\alpha$ -Dihydrocampholytsäure. Sd.  $245-247^0$  (Am. 26, 288).  
 52) Aldehyd d.  $\zeta$ -Keto- $\beta$ -Methylheptan- $\alpha$ -Carbonsäure. Sd. 115 bis  $118^{16-17}_0$  (B. 34, 2989).  
 $C_9H_{16}O_3$  53) Acetat d.  $\delta$ -Oxy- $\gamma$ -Methyl- $\gamma$ -Hexen. Sd.  $95-97^{50}_0$  (C. 1901 [2] 622).  
 \*8)  $\alpha$ -Cinensäure. Sm.  $83-84^0$ . Mg +  $2H_2O$  (B. 34, 2200).  
 \*10)  $\alpha$ -Oxydihydrocampholytische Säure. Fl. Ca (Am. 27, 426 C. 1902 [2] 365).  
 \*12)  $\zeta$ -Oxy- $\zeta$ -Methyl- $\beta$ -Hepten- $\epsilon$ -Carbonsäure. Mg +  $2H_2O$  (B. 34, 2197).  
 \*39) isom. Oxydihydrocampholytische Säure. Sm.  $121^0$  (Bl. [3] 25, 81).  
 \*42) 1-Oxy-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm.  $113^0$  (Soc. 79, 346).  
 \*43) isom. 1-Oxy-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm.  $160^0$  u. Zers. Ag (Soc. 79, 345).  
 46)  $\epsilon$ -Keto- $\beta$ -Methylhexan- $\gamma$ -Methylcarbonsäure ( $\gamma$ -Acetyl- $\beta$ -Isopropylbuttersäure). Sd.  $195^{39}_0$  ( $187^{15}_0$ ). Ag (C. 1901 [2] 415; Soc. 81, 680 C. 1902 [2] 115).  
 47)  $\beta$ -Cinensäure. Sd.  $124,5-125^{11}_0$ . Ca +  $2H_2O$ , Cu (B. 34, 2201).  
 48) i- $\beta$ -Campheramidsäure. Sm.  $178^0$  (Am. 27, 432 C. 1902 [2] 432).  
 49)  $r$ -Oxydihydrocampholytsäure. Sm.  $173^0$  (Am. 26, 286; Am. 27, 431 C. 1902 [2] 366).  
 50) Säure (aus Campholytlakton). Sm.  $173^0$  (Bl. [3] 25, 83).  
 51) Ketonsäure (aus Isothujon). Sd.  $158^{11}_0$  (A. 323, 340 C. 1902 [2] 1204).  
 52) Ketonsäure (aus Pulegen). Sd.  $265^0$  (C. 1902 [1] 1295).  
 53) Methylester d. 2-Oxy-1-Methylhexahydrobenzol-4-Carbonsäure. Sd.  $158-166^0$  (D.R.P. 81443). — \*II, 881.  
 54) Methylester d.  $\beta$ -Ketoheptan- $\alpha$ -Carbonsäure. Sd.  $115-116^{14}_0$ . Na, Cu (C. 1901 [1] 1317; C. r. 133, 821 C. 1902 [1] 29; D.R.P. 132802 C. 1902 [2] 169).  
 55) Aethylester d.  $\delta$ -Oxy- $\beta$ -Hexen- $\epsilon$ -Carbonsäure. Sd.  $110-112^{15}_0$  (B. 35, 3638 C. 1902 [2] 1408).  
 56) Aethylester d.  $\delta$ -Keto- $\beta$ -Methylpentan- $\alpha$ -Carbonsäure. Sd. 110 bis  $111^{13}_0$  (B. 35, 2182 C. 1902 [2] 374).  
 57) Aethylester d.  $\epsilon$ -Keto- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sd.  $105^{18}_0$  (C. r. 135, 181 C. 1902 [2] 575).  
 58) Aethylester d.  $\beta$ -Keto- $\gamma$ -Methylpentan- $\epsilon$ -Carbonsäure. Sd. 117 bis  $118^{23}_0$  (C. 1902 [2] 346).  
 59) Aethylester d. 2-Oxy-1-Methyl-R-Pentamethylen-1-Carbonsäure. Sd.  $109-110^{15}_0$  (A. 307, 70).  
 60) Aethylester d. 2-Oxy-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd.  $110-111^{14}_0$  (A. 317, 75).  
 61) Aethylester d. 1-Oxy-R-Pentamethylen-1-Methylcarbonsäure. Sd.  $105-107^{11}_0$  (C. 1902 [1] 1222; A. 323, 159 C. 1902 [2] 843).  
 $C_9H_{16}O_4$  \*7) Heptan- $\gamma$ - $\epsilon$ -Dicarbonsäure. Sm.  $76-78^0$  (C. 1902 [2] 107).  
 \*8) mal. Heptan- $\gamma$ - $\epsilon$ -Dicarbonsäure. Sm.  $119,5-120^0$ . K<sub>2</sub> (C. 1902 [2] 107).  
 \*46) Dioxydihydrocampholytsäure. Sm.  $155^0$  (Bl. [3] 25, 83).  
 53) Heptan- $\alpha$ - $\delta$ -Dicarbonsäure. Sm.  $55-59^0$  (Soc. 79, 131).  
 54) fum. Heptan- $\gamma$ - $\epsilon$ -Dicarbonsäure. Sm.  $93,5-94,5^0$ . K<sub>2</sub> (C. 1902 [2] 107).  
 55)  $\gamma$ -Dimethylpentan- $\alpha$ - $\delta$ -Dicarbonsäure. Sm.  $136^0$  (C. 1901 [2] 535).  
 56)  $\beta$ -Methylpentan- $\alpha$ -Carbonsäure- $\beta$ -Methylcarbonsäure. Sm.  $92^0$ . Zn (C. 1901 [1] 822).  
 57)  $\beta$ -Aethylbutan- $\alpha$ -Carbonsäure- $\beta$ -Methylcarbonsäure. Sm.  $108^0$  (C. 1901 [1] 822).  
 58) Säure (aus Thujamenthoketonsäure). Sm.  $137-138^0$ . Ag<sub>2</sub> (A. 323, 359 C. 1902 [2] 1206).  
 59) Monoäthylester d. Pentan- $\alpha$ - $\epsilon$ -Dicarbonsäure. Fl. K (Soc. 79, 1199).  
 60) Dibutyrat d. Dioxymethan. Sd.  $215-216^{745}_0$  (Bl. [3] 27, 871 C. 1902 [2] 934).  
 61) Diisobutyrat d. Dioxymethan. Sd.  $197-199^{745}_0$  (Bl. [3] 27, 871 C. 1902 [2] 934).  
 $C_9H_{16}O_5$  18)  $\delta$ -Oxyheptan- $\gamma$ - $\epsilon$ -Dicarbonsäure. Fl. Ba +  $2H_2O$  (C. 1902 [2] 107).  
 $C_9H_{16}Cl_2$  2) 1-Chlor-4-[ $\alpha$ -Chloräthyl]-1-Methylhexahydrobenzol. Sd.  $100-110^0$  (A. 324, 96 C. 1902 [2] 1202).



- C<sub>9</sub>H<sub>17</sub>N** \*3) 2-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sd. 188—189° (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 34, 138; A. 317, 292).
- \*12) N-Methylgranatanin. (HCl, AuCl<sub>3</sub>) (G. 32 [1] 263 C. 1902 [1] 1234).
- 20) 1-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sd. 188° (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 34, 131; A. 317, 223, 289).
- 21) 3-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sd. 189° (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 137; A. 317, 285).
- 22) Base (aus Fenchocamphoronoxim). Sd. 196—199°. HCl (A. 315, 290).
- 23) Base (aus Fenchocamphoronoximnitril). (2HCl, PtCl<sub>4</sub>) (A. 315, 290).
- 24) Methylderivat d. Base C<sub>8</sub>H<sub>15</sub>N. Sd. 164—166°. (2HCl, PtCl<sub>4</sub>), HJ, Pikrat (A. 319, 108).
- C<sub>9</sub>H<sub>17</sub>Cl** \*2) 2-Chlor-1,3,5-Trimethylhexahydrobenzol. Sd. 186—188° (Am. 25, 291).
- C<sub>9</sub>H<sub>17</sub>Br** 2) 3-Brom-1-Methyl-3-Aethylhexahydrobenzol. Sd. 90—92°<sub>20</sub> (B. 35, 2680 C. 1902 [2] 589).
- C<sub>9</sub>H<sub>18</sub>O** \*2) ζ-Oxy-β<sub>1</sub>-Dimethyl-β-Hepten. Sd. 85—86°<sub>14</sub> (B. 35, 3183 C. 1902 [2] 1203).
- \*17) β-Ketononan. Sm. —19°; Sd. 96—102°<sub>24</sub> (C. 1901 [1] 525, 1006; 1902 [1] 256; B. 35, 3588 C. 1902 [2] 1357).
- \*21) δ-Keto-β<sub>1</sub>-Dimethylheptan. Sd. 164—166° (A. 318, 167).
- \*24) Oxyd (aus α γ-Dioxy-ββ-Trimethylhexan). Sd. 140° (M. 22, 405).
- \*27) δ-Oxy-δ-Methyl-α-Okten (Methylallylbutylcarbinol). Sd. 179,1° (J. pr. [2] 64, 555; C. 1901 [1] 997).
- \*29) Aldehyd d. Oktan-α-Carbonsäure. Sd. 90—92°<sub>67</sub> (J. pr. [2] 66, 51 C. 1902 [2] 520).
- 30) δ-Oxy-γ-Methyl-β-Okten. Sd. 89—91°<sub>11</sub> (C. 1901 [2] 622).
- 31) δ-Oxy-δ-ε-Dimethyl-α-Hepten (Methylallyl-sec. Butylcarbinol). Sd. 174,9° (J. pr. [2] 64, 558; C. 1901 [1] 997).
- 32) 3-Oxy-1-Methyl-3-Aethylhexahydrobenzol. Sd. 80—81°<sub>16</sub> (B. 34, 2881).
- 33) 4-Oxy-1,1,3-Trimethylhexahydrobenzol (Trimethylcyklohexanol). Sd. 192—193° (C. 1902 [1] 1295; A. 324, 106 C. 1902 [2] 1201).
- 34) 2-Oxy-1-Methyl-3-Isopropyl-R-Pentamethylen. Sd. 183—184° (B. 35, 1022 C. 1902 [1] 933).
- 35) Pulemol. Sd. 187—189° (C. 1902 [1] 1294).
- 36) Alkohol (aus Pulegenon). Sd. 77—78°<sub>15</sub> (C. 1902 [1] 1295).
- 37) γ-Keto-β<sub>1</sub>-Dimethylheptan. (Isopropylisoamylketon). Sd. 171—172° (C. 1901 [1] 724).
- 38) γ-Keto-ββ-Trimethylhexan. Sd. 60°<sub>21</sub> (A. 318, 169).
- C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>** \*3) Pelargonsäure. Ca (C. 1901 [1] 1149; Soc. 81, 359 C. 1902 [1] 981).
- 47) Oxyd (aus γεζ-Trioxy-ββγ-Trimethylhexan). Sd. 214—215°<sub>752</sub> (J. pr. [2] 65, 170).
- 48) sec. Butylester d. Isovaleriansäure. Sd. 163—164°<sub>753</sub> (Am. 26, 311).
- 49) Verbindung (aus dem Glycerin d. Methylallyltertiärbutylcarbinol). Sd. 214—215°<sub>751</sub> (C. 1901 [1] 668).
- C<sub>9</sub>H<sub>18</sub>O<sub>3</sub>** 33) Aethylcarbonat d. β-Oxyhexan. Sd. 189—191° (C. 1901 [2] 249).
- 34) Aethylcarbonat d. γ-Oxyhexan. Sd. 185—186° (C. 1901 [2] 249).
- 35) Aethylcarbonat d. γ-Oxy-β-Methylpentan. Sd. 178—180° (C. 1901 [2] 249).
- 36) Aethylcarbonat d. δ-Oxy-β-Methylpentan. Sd. 194—196° (C. 1901 [2] 249).
- 37) Aethylcarbonat d. β-Oxy-γ-Methylpentan. Sd. 183—186° (C. 1901 [2] 249).
- 38) Aethylester d. β-Oxy-β-Methylpentan-γ-Carbonsäure (C. r. 134, 850 C. 1902 [1] 1198).
- 39) Isoamylester d. α-Oxyisobuttersäure. Sd. 195—198°<sub>753</sub> (C. r. 135, 628 C. 1902 [2] 1359).
- 40) Di[Methyläthylcarbinolester] d. Kohlensäure. Sd. 178—180° (C. 1901 [1] 1302).
- C<sub>9</sub>H<sub>18</sub>O<sub>4</sub>** 3) β<sub>1</sub>-Dioxy-β-Methylheptan-γ-Carbonsäure (Cinogensäure). Sm. 104,5 bis 105°. Mg + 2H<sub>2</sub>O, Co + 2H<sub>2</sub>O (B. 34, 2198).
- 4) εε-Dioxy-γ-Methylpentandimethyläther-α-Carbonsäure. Sd. 149 bis 152°<sub>7-8</sub> (B. 34, 1499).
- C<sub>9</sub>H<sub>18</sub>Br<sub>2</sub>** 3) p-Dibrom-β<sub>1</sub>-Dimethylheptan. Sd. 110—112°<sub>10</sub> u. Zers. (C. 1901 [2] 624).

- C<sub>9</sub>H<sub>19</sub>N** 27) 1-Dimethylamido-R-Heptamethylen. Sd. 190°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 138; A. 317, 221, 302).
- 28) 5-Amidomethyl-1,1,2-Trimethyl-R-Pentamethylen ( $\alpha$ -Dihydrocamphenamin). Sd. 190°. (2HCl, PtCl<sub>4</sub>). Pikrat (B. [3] 27, 74 C. 1902 [1] 585).
- 29) 1-1-Methyl-2-Propylhexahydropyridin (1-Methyl-1-Coniin). Sd. 175,6°<sub>787</sub>. HCl, (HCl, 3HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, HJ, Pikrat (B. 35, 1331 C. 1902 [1] 1064).
- C<sub>9</sub>H<sub>20</sub>O** \*1)  $\alpha$ -Oxynonan (C. r. 135, 173 C. 1902 [2] 567).
- 12)  $\beta$ -Oxynonan (Methylheptylcarbinol). Sd. 193—194° (B. 35, 2144 C. 1902 [2] 260; B. 35, 3589 C. 1902 [2] 1357).
- 13)  $\beta$ -Oxy- $\beta$ -Methyloktan (Dimethylhexylcarbinol). Sd. 178° (C. 1901 [1] 725).
- 14)  $\delta$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan (Diisobutylcarbinol). Sd. 172—174°<sub>753</sub> (C. 1901 [1] 612; 1901 [2] 622, 623).
- 15)  $\delta$ -Oxy- $\beta$ -Methyl- $\delta$ -Aethylhexan (Diäthylisobutylcarbinol). Sd. 172° (C. 1901 [1] 725).
- C<sub>9</sub>H<sub>20</sub>O<sub>2</sub>** \*1)  $\alpha\gamma$ -Dioxy- $\beta\beta\epsilon$ -Trimethylhexan. Sm. 79° (M. 22, 398).
- 6)  $\beta\delta$ -Dioxy- $\beta\delta$ -Dimethyl- $\gamma$ -Aethylpentan. Sm. 52°; Sd. 127—128°<sub>11</sub> (C. r. 134, 850 C. 1902 [1] 1198).
- C<sub>9</sub>H<sub>20</sub>O<sub>3</sub>** \*2)  $\gamma\epsilon\zeta$ -Trioxy- $\beta\beta\gamma$ -Trimethylhexan (J. pr. [2] 65, 168).
- 9)  $\alpha\beta\delta$ -Trioxy- $\delta$ -Methyloktan. Fl. (J. pr. [2] 64, 562).
- 10)  $\delta\zeta\eta$ -Trioxy- $\gamma\delta$ -Dimethylheptan. Fl. (J. pr. [2] 64, 562).
- C<sub>9</sub>H<sub>20</sub>N<sub>2</sub>** 6) 3-Amido-1,2,2,5,5-Pentamethyltetrahydropyrrol. Sm. 40°; Sd. 190°<sub>740</sub>. Oxalat, 2 Pikrat (B. 34, 2289; A. 322, 108 C. 1902 [2] 126).
- C<sub>9</sub>H<sub>21</sub>N** \*7)  $\gamma$ -Propylamidohexan. Sd. 155—165°<sub>749</sub>. HCl (J. pr. [2] 63, 229).
- \*8)  $\delta$ -Aethylamido- $\beta$ -Methylhexan. HCl (J. pr. [2] 63, 214).
- 10)  $\beta$ -Amidononan. Sd. 69—70°<sub>11</sub> (B. 35, 2146 C. 1902 [2] 260).
- C<sub>9</sub>H<sub>21</sub>N<sub>3</sub>** \*1) R-Trimethylentriäthyltriämin. HJ (Sm. 121°) (B. 35, 2943 C. 1902 [2] 1036).
- 2) isom. R-Trimethylentriäthyltriämin. HJ (Sm. 199°) (B. 35, 2944 C. 1902 [2] 1036).

## — 9 III —

- C<sub>9</sub>H<sub>2</sub>O<sub>12</sub>Hg<sub>2</sub>** 1) Verbindung + 8 H<sub>2</sub>O (aus Malonsäure) (B. 35, 2582 C. 1902 [2] 571).
- C<sub>9</sub>H<sub>9</sub>O<sub>3</sub>Cl<sub>3</sub>** 1) Acetat d. 2,4,5,6-Tetrachlor-3-Oxy-1-Dichlormethylbenzol. Sm. 80—81° (B. 34, 4128 C. 1902 [1] 191).
- C<sub>9</sub>H<sub>4</sub>O<sub>2</sub>Br<sub>2</sub>** \*2) 2,2-Dibrom-1,3-Diketo-2,3-Dihydroinden. Sm. 177—179° (B. 33, 2147; B. 35, 2937 C. 1902 [2] 1048).
- C<sub>9</sub>H<sub>3</sub>O<sub>3</sub>Cl<sub>4</sub>** 1) Aldehyd d. 2,4,5,6-Tetrachlor-3-Acetoxybenzol-1-Carbonsäure. Sm. 112° (B. 34, 4123 C. 1902 [1] 190).
- C<sub>9</sub>H<sub>3</sub>NJ<sub>3</sub>** 3) 5,6,7-Trijodchinolin. Sm. 102° (B. 34, 3349).
- C<sub>9</sub>H<sub>3</sub>ON** C 75,5 — H 3,5 — O 11,2 — N 9,8 — M. G. 143.
- 1) Nitril d. Benzfuran-1-Carbonsäure. Sm. 36° (B. 34, 773).
- C 57,8 — H 2,7 — O 17,1 — N 22,4 — M. G. 187.
- C<sub>9</sub>H<sub>3</sub>O<sub>2</sub>N<sub>3</sub>** 1) Azid d. Benzfuran-1-Carbonsäure. Sm. 109° (B. 34, 774).
- C<sub>9</sub>H<sub>3</sub>O<sub>2</sub>Cl** 5) Chlorid d. Benzfuran-1-Carbonsäure. Sm. 52° (B. 34, 773).
- C<sub>9</sub>H<sub>3</sub>O<sub>2</sub>Br** \*3) 2-Brom-3-Oxy-1-Ketoinden (2-Brom-1,3-Diketo-2,3-Dihydroinden). Sm. 119—120° (B. 34, 2146).
- C<sub>9</sub>H<sub>3</sub>O<sub>2</sub>Br<sub>5</sub>** 1) Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Brommethylbenzol. Sm. 171—172° (A. 320, 216 C. 1902 [1] 654).
- C<sub>9</sub>H<sub>3</sub>O<sub>3</sub>N** \*2) 2-Oximido-1,3-Diketo-2,3-Dihydroinden (B. 35, 222 C. 1902 [1] 393).
- \*3) Imid d. Phthalonsäure. Sm. 224° (B. 35, 2422 C. 1902 [2] 455).
- C<sub>9</sub>H<sub>3</sub>O<sub>3</sub>Cl<sub>5</sub>** 2) Acetat d. 1,2,3,5,6-Pentachlor-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 106—108° (A. 320, 198 C. 1902 [1] 652).
- C<sub>9</sub>H<sub>3</sub>O<sub>3</sub>Br<sub>5</sub>** 1) Acetat d. 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Brommethyl-1,4-Dihydrobenzol. Sm. 175—176° (A. 320, 219 C. 1902 [1] 655).
- C<sub>9</sub>H<sub>3</sub>O<sub>4</sub>Cl<sub>3</sub>** 1) Monomethylester d. 3,4,6-Trichlorbenzol-1,2-Dicarbonsäure. Sm. 84—86° (B. 34, 2109).
- C<sub>9</sub>H<sub>3</sub>NCl<sub>2</sub>** 10) 2,6-Dichlorchinolin. Sm. 156° (B. 35, 3683 C. 1902 [2] 1475).
- 11) 2,7-Dichlorchinolin. Sm. 98—99° (B. 35, 3683 C. 1902 [2] 1475).
- C<sub>9</sub>H<sub>3</sub>NBr<sub>2</sub>** \*4) 2,6-Dibromchinolin. Sm. 166—167° (B. 35, 3682 C. 1902 [2] 1475).
- C<sub>9</sub>H<sub>3</sub>NJ<sub>2</sub>** 3) 5,7-Dijodchinolin. Sm. 132° (B. 34, 3349).

- $C_6H_5N_2Cl$  1) Nitril d. 2-Chlorphenylmalonsäure. Sm. 173° (*J. pr.* [2] 66, 377 C. 1902 [2] 1502).
- $C_6H_5ON_4$  1) Azid d. Indol-2-Carbonsäure. Zers. bei 140° (*G. 32* [1] 252 C. 1902 [1] 1230).
- $C_6H_5O_2N_2$  \*2) 5-Nitrochinolin. Sm. 72° (*J. pr.* [2] 63, 573).
- $C_6H_5O_2Cl$  2) Aldehyd d. 2,4,5,6-Tetrachlor-3-Oxybenzyläther-1-Carbonsäure. Sm. 67—68° (*B. 34*, 4124 C. 1902 [1] 190).
- $C_6H_5O_2Br_4$  3) Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Methylbenzol. Sm. 156° (*A. 320*, 207 C. 1902 [1] 653).
- 4) Acetat d. 2,3,5-Tribrom-4-Oxy-1-Brommethylbenzol. Sm. 116° (*A. 320*, 210 C. 1902 [1] 654).
- $C_6H_5O_2Br_6$  1) Methyläther d. 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxy-äthyl]benzol. Sm. 109—110° (*A. 322*, 210 C. 1902 [2] 268).
- $C_6H_5O_2N_2$  \*4) 8-Nitro-2-Oxychinolin. Sm. 168° (*J. pr.* [2] 64, 92).
- \*5) *p*-Nitro-2-Oxychinolin. Sm. 260° (*J. pr.* [2] 64, 101).
- \*6) 6-Nitro-2-Oxychinolin. Sm. 280° (*J. pr.* [2] 64, 89).
- \*7) *p*-Nitro-2-Oxychinolin. Sm. 283° (*J. pr.* [2] 64, 94).
- \*8) 7-Nitro-2-Oxychinolin. Sm. 340° (*J. pr.* [2] 64, 100).
- $C_6H_5O_2Cl_4$  1) 1-Acetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol (*A. d.* 2,3,5,6-Tetrachlor-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol). Sm. 170° (*A. 320*, 193 C. 1902 [1] 652).
- $C_6H_5O_2Br_4$  1)  $\alpha\beta$ -Dibrom- $\beta$ -[3,5-Dibrom-4-Oxyphenyl]propionsäure. Sm. 191° (*A. 322*, 225 C. 1902 [2] 277).
- 2) Acetat d. 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 175—176° (*B. 34*, 256).
- 3) 1-Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Oxymethylbenzol (*A. d.* 2,3,5,6-Tetrabrom-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol). Sm. 159—160° (*A. 320*, 217 C. 1902 [1] 654).
- $C_6H_5O_4N_2$  8) 2,4,6-Triketo-5-Furalhexahydro-1,3-Diazin (Furalbarbitursäure). Zers. oberh. 280° (*B. 34*, 1343).
- 9) Benzimidazol-2,7-Dicarbonsäure. Sm. noch nicht bei 360° (*B. 34*, 906).
- $C_6H_5O_4N_4$  5) *p*-Dinitro-4-Phenylpyrazol. Sm. 208—209° (*B. 35*, 34 C. 1902 [1] 424).
- 6) *p*-Dinitro-5-Phenylpyrazol. Sm. 212° u. Zers. Na (*B. 35*, 39 C. 1902 [1] 425).
- 7) 1-[*p*-Nitrophenyl]-1,2,3-Triazol-4-Carbonsäure. Sm. 200—202° (*B. 35*, 1046 C. 1902 [1] 882).
- 8) 1-[*p*-Nitrophenyl]-1,2,3-Triazol-5-Carbonsäure. Sm. 176° (*B. 35*, 1043 C. 1902 [1] 881).
- $C_6H_5O_6N_2$  3)  $\beta$ -[2,4-Dinitrophenyl]akrylsäure. Sm. 179°. Ba, Ag (*M. 23*, 535 C. 1902 [2] 742).
- $C_6H_6NCl$  11) Nitril d.  $\beta$ -[4-Chlorphenyl]akrylsäure. Fl. (*J. pr.* [2] 65, 287 C. 1902 [1] 1216).
- $C_6H_6N_2S$  3) Nitril d. 1-Rhodanmethylbenzol-3-Carbonsäure. Sm. 55° (*B. 34*, 3370).
- $C_6H_6N_3Br_3$  1) *p*-Tribrom-5-[*p*-Amidophenyl]pyrazol. Sm. 207° (*B. 35*, 41 C. 1902 [1] 425).
- $C_6H_7ON$  \*4) 4-Oxychinolin. Sm. 201°. (2 + HCl + 2H<sub>2</sub>O) (*B. 33*, 402; *34*, 2709; *M. 23*, 459 C. 1902 [2] 376).
- 23) Nitril d. 1-Methylbenzol-2-Ketocarbonsäure. Sd. 221° (*C. 1901* [2] 938).
- $C_6H_7ON_3$  \*1) 1-Benzoyl-1,2,3-Triazol. Sm. 101—102° (*B. 35*, 1046 C. 1902 [1] 882).
- \*3) 3-Acetyl-1,2,4-Benzotriazin. Sm. 121,5—122,5° (*J. pr.* [2] 64, 231).
- $C_6H_7OCl$  \*4) Chlorid d.  $\beta$ -Phenylakrylsäure. Sm. 36°; Sd. 251—253° (*M. 22*, 428).
- $C_6H_7OBr_5$  2) 3,6-Dibrom-5-Oxy-1,2,4-Tri[Brommethyl]benzol. Sm. 174° (*B. 35*, 141 C. 1902 [1] 467).
- $C_6H_7OJ_3$  1) Allyläther d. 2,4,6-Triod-1-Oxybenzol. Sm. 113—114° (*C. r.* 133, 161).
- $C_6H_7O_2N$  \*2) 2,4-Dioxychinolin (*C. 1901* [1] 236; *1901* [2] 1228).
- \*42) Acetylanthranil. Sm. 80—81°; Sd. 147°<sub>14</sub> (*B. 35*, 3473 C. 1902 [2] 1316).
- 44) Amid d. Benzfuran-1-Carbonsäure. Sm. 159° (*B. 34*, 773).
- $C_6H_7O_2N_3$  \*1) 5-[*p*-Nitrophenyl]pyrazol. Sm. 192°. Nitrat (*B. 35*, 38 C. 1902 [1] 425).

- $C_6H_7O_3N_3$  \*10) 1-Phenyl-1,2,4-Triazol-3-Carbonsäure. Sm. 185° (*J. pr.* [2] 64, 239).  
 21) Phenylhydrazoncyanessigsäure. Sm. 157° u. Zers. (*G.* 31 [1] 579).  
 22) 1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 151° (*B.* 35, 1036 *C.* 1902 [1] 879).  
 23) 1-Phenyl-1,2,3-Triazol-5-Carbonsäure. Sm. 176° u. Zers. K, Ba + 2H<sub>2</sub>O (*B.* 35, 1035 *C.* 1902 [1] 879).  
 24) Imid d.  $\alpha\gamma$ -Dicyan- $\beta$ -Aethylpropen- $\alpha\gamma$ -Dicarbonsäure. NH<sub>4</sub> (*C.* 1901 [1] 582).
- $C_6H_7O_2Cl_3$  5) Aethylester d. 2,3,5-Trichlorbenzol-1-Carbonsäure. Fl. (*Soc.* 79, 49). — \*II, 765.
- $C_6H_7O_2Br$  \*3) Allo- $\alpha$ -Brom- $\beta$ -Phenylakrylsäure. Sm. 120° (*B.* 34, 3652).  
 \*4)  $\beta$ -Brom- $\beta$ -Phenylakrylsäure. Sm. 134° (*B.* 34, 4226 *C.* 1902 [1] 176).  
 \*5) Allo- $\beta$ -Brom- $\beta$ -Phenylakrylsäure. Sm. 159° (*B.* 34, 3648; *B.* 34, 4226 *C.* 1902 [1] 176).  
 \*8)  $\beta$ -[4-Bromphenyl]akrylsäure. Sm. 249—251° (*B.* 35, 2932 *C.* 1902 [2] 1046).
- 10) Methylenäther d.  $\beta$ -Brom- $\alpha$ -[3,4-Dioxyphenyl]äthen. Sm. 59° (*B.* 34, 1470).
- $C_6H_7O_2Br_3$  10) Acetat d. 2,3,5-Tribrom-4-Oxy-1-Methylbenzol. Sm. 72—73° (77°) (*B.* 35, 464 *C.* 1902 [1] 646; *A.* 320, 205 *C.* 1902 [1] 653).
- $C_6H_7O_2Br_3$  1)  $\alpha$ -Methyläther d. 2,3,5-Tribrom-4-Oxy-1- $[\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]-benzol. Sm. 120° (*A.* 322, 207 *C.* 1902 [2] 268).
- $C_6H_7O_2J$  5) Allo- $\beta$ -Jod- $\beta$ -Phenylakrylsäure. Sm. 186—188° (*B.* 34, 3659). — \*II, 855.  
 6) isom.  $\beta$ -Jod- $\beta$ -Phenylakrylsäure. Sm. 127—129° (*B.* 34, 3659). — \*II, 855.
- $C_6H_7O_3N$  \*3) 2,4-Diketo-3-Phenyltetrahydrooxazol. Sm. 126° (*Bl.* [3] 27, 445 *C.* 1902 [2] 34).  
 \*5) 1-Keto-2-Acetyl-1,2-Dihydrobenzoxazol. Sm. 95° (*B.* 35, 2752 *C.* 1902 [2] 640).  
 22) 2,4-Diketo-3-Methyl-3,4-Dihydro-1,3-Benzoxazin. Sm. 146° (*B.* 35, 3651 *C.* 1902 [2] 1457).  
 23) 2,4-Diketo-6-Methyl-3,4-Dihydro-1,3-Benzoxazin. Sm. 233° (*B.* 35, 3652 *C.* 1902 [2] 1457).  
 24) Verbindung (aus 2-Nitrosobenzol-1-Carbonsäure). Sm. 121° (*B.* 34, 2045; *B.* 35, 1081 *C.* 1902 [1] 932; *B.* 35, 3597).
- $C_6H_7O_3N_3$  16) 2-Cyanmethylnitrosamidobenzol-1-Carbonsäure. Sm. 113—114° u. Zers. (*J. pr.* [2] 63, 402).  
 17) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[4-Nitrophenyl]essigmethyläthersäure. Sm. 134—135° (*J. pr.* [2] 66, 372 *C.* 1902 [2] 1502).
- $C_6H_7O_3Cl$  3)  $\beta$ -Chlor- $\alpha$ -Oxyakrylphenyläthersäure. Sm. 105° K, Ca + 5H<sub>2</sub>O, Ba + 5H<sub>2</sub>O. — \*II, 364.  
 4) Monochlorid d. Benzol-1,2-Dicarbonsäuremonomethylester. Fl. (*M.* 22, 578).
- $C_6H_7O_3Br_3$  3) Acetat d. 2,3,5-Tribrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 127—128° (*B.* 34, 257).  
 5) 1-Acetat d. 2,3,5-Tribrom-4-Oxy-1-Oxymethylbenzol (*A.* d. 2,3,5-Tribrom-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol). Sm. 123° (*A.* 320, 211 *C.* 1902 [1] 654).
- $C_6H_7O_4N$  20) Methylenäther d.  $\beta$ -Nitro- $\alpha$ -[3,4-Dioxyphenyl]äthen. Sm. 159° (*C. r.* 135, 42 *C.* 1902 [2] 449).
- $C_6H_7O_4N_3$  2) 3,6-Diketo-1,2-[3-Nitrobenzyliden]hexahydro-1,2,4,5-Tetrazin (3-Nitrobenzyliden-p-Urazin) (*G.* 31 [2] 559 *C.* 1902 [1] 481).
- $C_6H_7O_4Br$  \*5) 1-Methylester d. 2-Brombenzol-1,4-Dicarbonsäure. Sm. 145° (*M.* 23, 330 *C.* 1902 [2] 201).  
 \*6) 4-Methylester d. 2-Brombenzol-1,4-Dicarbonsäure. Sm. 164° (*M.* 23, 331 *C.* 1902 [2] 201).
- $C_6H_7O_5N_3$  C 45,6 — H 2,9 — O 33,7 — N 17,7 — M. G. 237.  
 1) Nitril d. 3,5-Dinitro-2-Oxybenzoläthyläther-1-Carbonsäure. Sm. 72° (*R.* 20, 412 *C.* 1902 [1] 418).
- $C_6H_7O_5N$  \*11) 2-Methylpyridin-3,4,6- oder 4,5,6-Tricarbonsäure (*Soc.* 81, 151 *C.* 1902 [1] 356, 596).  
 \*12) 1-Methylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 157° (*M.* 23, 322 *C.* 1902 [2] 201).

- $C_9H_7O_6N$  \*13) 2-Methylester d. 3-Nitrobenzol-1,2-Dicarbonsäure +  $H_2O$ . Sm. 152—153° (*Soc.* 79, 1140; *M.* 23, 321 *C.* 1902 [2] 201).
- \*14) 1- oder 2-Methylester d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 128—129° (*M.* 23, 323 *C.* 1902 [2] 201; *M.* 23, 359 *C.* 1902 [2] 323).
- 15) 1-Methylester d. 2-Nitrobenzol-1,4-Dicarbonsäure. Sm. 174—175,5° (*M.* 23, 332 *C.* 1902 [2] 201; *M.* 23, 405 *C.* 1902 [2] 205).
- 16) 4-Methylester d. 2-Nitrobenzol-1,4-Dicarbonsäure. Sm. 133—134° (*M.* 23, 332 *C.* 1902 [2] 201; *M.* 23, 405 *C.* 1902 [2] 205).
- $C_9H_7O_6N_5$  2) Nitril d. 3,5-Dinitro-2-Aethylnitramidobenzol-1-Carbonsäure. Sm. 89° (*R.* 21, 275 *C.* 1902 [2] 514).
- $C_9H_7O_7N$  \*2) Monoamid d. 2,4-Dioxybenzol-1,3,5-Tricarbonsäure. Sm. 245° u. Zers. (*G.* 31 [1] 165).
- $C_9H_7O_6N_5$  C 32,8 — H 2,1 — O 43,8 — N 21,3 — M. G. 329.
- 1) Verbindung (aus Kalium-p-Kresylpurpurat).  $Ag_2$  (*B.* 35, 576 *C.* 1902 [1] 583).
- $C_9H_7N_3Cl$  9) 6-Chlor-2-Amidochinolin. Sm. 152° (*B.* 35, 3683 *C.* 1902 [2] 1475).
- $C_9H_7N_3Br$  \*1) 4-Brom-1-Phenylpyrazol. Sm. 81° (*C. r.* 133, 539).
- $C_9H_8ON_2$  \*23) 4-Oxy-2-Methyl-1,3-Benzdiazin. Sm. 232° (235°) (*B.* 35, 3468 *C.* 1902 [2] 1315; *B.* 35, 3482 *C.* 1902 [2] 1318).
- 44) 7-Amido-2-Oxychinolin. Sm. oberh. 250° (*M.* 23, 538 *C.* 1902 [2] 743).
- 45) 4-Oxy-6-Methyl-1,3-Benzdiazin. Sm. 251° (*B.* 34, 3377).
- 46) Nitril d. Benzoylamidoessigsäure. Sm. 144° (*J. pr.* [2] 65, 190 *C.* 1902 [1] 982).
- 47) Nitril d.  $\alpha$ -Oximido- $\alpha$ -Phenylessig-O-Methyläthersäure. Sm. 32° (*J. pr.* [2] 66, 365 *C.* 1902 [2] 1501).
- 48) Nitril d.  $\alpha$ -Oximido- $\alpha$ -Phenylessig-N-Methyläthersäure. Sm. 131° (*J. pr.* [2] 66, 365 *C.* 1902 [2] 1501).
- $C_9H_8ON_4$  13) Amid d. 1-Phenyl-1,2,3-Triazol-5-Carbonsäure. Sm. 146° (*B.* 35, 1035 *C.* 1902 [1] 879).
- $C_9H_8OBr_4$  2) 3,6-Dibrom-5-Oxy-2,4-Di[Brommethyl]-1-Methylbenzol. Sm. 149 bis 150° (*B.* 35, 142 *C.* 1902 [1] 467).
- $C_9H_8OJ_2$  1) Allyläther d. 2,4-Dijod-1-Oxybenzol. Sd. 110—112°<sub>139</sub> (*C. r.* 133, 160).
- 2) Allyläther d. 2,6-Dijod-1-Oxybenzol. Sm. 46° (*C. r.* 134, 358 *C.* 1902 [1] 638).
- $C_9H_8O_2N_2$  \*4)  $\alpha$ -Phenylhydantoïn +  $H_2O$  (*B.* 34, 372).
- 36) 3-Oxy-4-Keto-2-Methyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 214° (*B.* 35, 3483 *C.* 1902 [2] 1318).
- 37) 2-Cyanmethylnitramidobenzol-1-Carbonsäure. Sm. 181° u. Zers. (184°).  $Na + 5H_2O$ , Cu, Ag (*J. pr.* [2] 63, 392; *C.* 1901 [1] 486, 978; *A.* 324, 127 *C.* 1902 [2] 1253).
- 38) 2-Nitril d. Benzol-1-Carbonsäure-2-Amidoessigsäure. Sm. 184° (*C.* 1901 [1] 486). — \*II, 785.
- 39) Hydrazid d. Benzfuran-1-Carbonsäure. Sm. 172° (*B.* 34, 773).
- $C_9H_8O_3N_4$  9) 1-[ $\beta$ -Amidophenyl]-1,2,3-Triazol-4-Carbonsäure. HCl (*B.* 35, 1046 *C.* 1902 [1] 882).
- 10) 1-[ $\beta$ -Amidophenyl]-1,2,3-Triazol-5-Carbonsäure. HCl (*B.* 35, 1044 *C.* 1902 [1] 882).
- $C_9H_8O_2Cl_4$  2) 1-Aethyläther d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 126—127° (*A.* 320, 190 Anm.).
- $C_9H_8O_2Br_2$  \*7) Allo- $\alpha$ - $\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 89—91° (*B.* 34, 3664).
- \*16) 1,1-Anhydrid d. 3,6-Dibrom-4-Keto-1-Oxy-2,5-Dimethyl-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 110—111° (*B.* 35, 434 *C.* 1902 [1] 641).
- 18) Acetat d. 3,5-Dibrom-4-Oxy-1-Methylbenzol. Sm. 67° (*A.* 320, 204 *C.* 1902 [1] 653).
- 19) Acetat d. 3-Oxy-1-Dibrommethylbenzol. Fl. (*B.* 34, 4294 *C.* 1902 [1] 311). — \*II, 430.
- 20) Acetat d. 4-Oxy-1-Dibrommethylbenzol. Sm. 97—98° (*B.* 34, 4293 *C.* 1902 [1] 311). — \*II, 435.
- $C_9H_8O_2Br_4$  2)  $\alpha$ -Methyläther d. 3,5-Dibrom-4-Oxy-1-[ $\beta$ - $\beta$ -Dibrom- $\alpha$ -Oxyäthyl]-benzol. Sm. 72° (*A.* 322, 232 *C.* 1902 [2] 277).
- 3)  $\alpha$ -Methyläther d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]-benzol. Sm. 133—134° (*A.* 322, 204 *C.* 1902 [2] 267).
- 4) 1-Methyläther d. 3,5,6-Tribrom-2-Oxy-4-Brommethyl-1-Oxymethylbenzol. Sm. 125—126° (*B.* 35, 143 *C.* 1902 [1] 467).



- $C_6H_5O_3N_3$  23) s-Di[2-Furanyl]harnstoff. Sm. 229° (*J. pr.* [2] 65, 37 *C. 1902* [1] 461).
- $C_6H_5O_3N_4$  5) 5-Oxy-1-Methyl-3-[3-Nitrophenyl]-1,2,4-Triazol. Sm. 285—285,5°. Ag (*Soc.* 79, 667).
- $C_6H_5O_3Cl_2$  6) 3,6-Diketo-1,2-[2-Oxybenzyliden]hexahydro-1,2,4,5-Tetrazin (Salcyl-p-Urazin). Sm. 219° (*G.* 31 [2] 558 *C. 1902* [1] 481).
- 5) 3,6-Dichlor-5-Oxy-2-Isopropyl-1,4-Benzochinon. Sm. 126°. Ag (*B.* 35, 1505 *C. 1902* [1] 1211).
- 6) Aethylester d. 2,6-Dichlor-3-Oxybenzol-1-Carbonsäure. Fl. (*G.* 31 [2] 369).
- $C_6H_5O_3Br_2$  \*6)  $\beta$ -[3,5-Dibrom-4-Oxyphenyl]propionsäure. Sm. 114° (*A.* 322, 226 *C. 1902* [2] 277).
- 19) 3,6-Dibrom-5-Oxy-2-Isopropyl-1,4-Benzochinon. Sm. 143°. Ag, p-Toluidinsalz, p-Xylidinsalz (*B.* 34, 1560; *B.* 35, 1504 *C. 1902* [1] 1211).
- 20)  $\alpha$ -[ $\beta$ -Dibrom-4-Oxyphenyl]propionsäure. Sm. 115° (*C. 1901* [1] 1161; *1902* [1] 1056).
- 21) Acetat d. 3,5-Dibrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 116—117° (*B.* 35, 463 *C. 1902* [1] 646).
- $C_6H_5O_3J_2$  3)  $\alpha$ -[ $\beta$ -Dijod-4-Oxyphenyl]propionsäure. Sm. 149° (*C. 1901* [1] 1161; *1902* [1] 1056).
- $C_6H_5O_4N_3$  \*17) Acetylamid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 221° (*B.* 34, 1990).
- $C_6H_5O_4N_4$  2) Nitril d. 3,5-Dinitro-2-Aethylamidobenzol-1-Carbonsäure. Sm. 121° (*R.* 21, 275 *C. 1902* [2] 514).
- $C_6H_5O_4Cl_2$  1) 5,6-Dichlor-3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 182—183° (*G.* 31 [2] 103).
- $C_6H_5O_5N_2$  16) Phenylnitrosamidoessigsäure-2-Carbonsäure. Sm. 120° u. Zers. (*C. 1901* [2] 73; *B.* 34, 1646; *B.* 35, 1685 *C. 1902* [1] 1362).
- 17) 4-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 188° (*B.* 34, 4352; *M.* 23, 431 *C. 1902* [2] 359).
- 18) 5-Nitro-2-Acetylamidobenzol-1-Carbonsäure. Sm. 214—216° (213°) (*B.* 34, 4353; *M.* 23, 435 *C. 1902* [2] 359; D.R.P. 133679 *C. 1902* [2] 554).
- 19) Aldehyd d.  $\beta$ -Dinitro-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 101 bis 102° (*B.* 34, 1316).
- 20) Aethylester d. 2,3-Anhydro-2-Diazo-3,4,5-Trioxybenzol-1-Carbonsäure. Sm. 182° u. Zers. (*Soc.* 81, 77 *C. 1902* [1] 194).
- $C_6H_5O_5N_4$  5) p-Kresylpurpursäure. K (*B.* 35, 575 *C. 1902* [1] 583).
- $C_6H_5O_5Cl_2$  1) Aethylester d. 2,6-Dichlor-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2}H_2O$ . Sm. 133—134° (151—153°) (*G.* 31 [1] 466; *G.* 32 [2] 566 *C. 1902* [2] 639).
- $C_6H_5O_5Br_2$  \*1) Aethylester d. 2,6-Dibrom-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2}H_2O$ . Sm. 137° (wasserfrei) (*G.* 31 [2] 357 *C. 1902* [1] 38; *G.* 32 [1] 567 *C. 1902* [2] 639).
- $C_6H_5O_6N_2$  \*6) 4,6-Dinitro-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 212,5—213° (215,5—216°) (*B.* 34, 30).
- \*7) 2,4-Dinitro-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 207,5—208° (210,5—211°) (*B.* 34, 32).
- \*10) Methylester d. 4,6-Dinitro-1-Methylbenzol-2-Carbonsäure. Sm. 73—73,5° (*R.* 20, 175).
- 15) Methylester d. 2,4-Dinitro-1-Methylbenzol-3-Carbonsäure. Sm. 104—105° (*R.* 20, 168).
- 16) Acetat d. 2,4-Dinitro-1-Oxymethylbenzol. Sm. 96—97° (*B.* 35, 1266 *C. 1902* [1] 1102; *M.* 23, 551 *C. 1902* [2] 742).
- $C_6H_5O_7S$  2) 6,7-Dioxy-3,4-Dihydro-1,2-Benzpyron-3- oder -4-Sulfonsäure +  $H_2O$ . Na (*B.* 34, 2609).
- $C_6H_5O_8N_2$  C 37,5 — H 2,8 — O 50,0 — N 9,7 — M. G. 288.
- 1) Aethylester d. 2,6-Dinitro-3,4,5-Trioxybenzol-1-Carbonsäure +  $H_2O$ . Sm. 80—85° (153—154° wasserfrei) (*Soc.* 81, 75 *C. 1902* [1] 194, 419).
- $C_6H_5NCI$  1) 5-Chlor-2-Methylindol. Sm. 119° (D.R.P. 127245 *C. 1902* [1] 154).
- $C_6H_5ON$  \*5) 2-Phenyl-4,5-Dihydrooxazol. HCl (*B.* 35, 167 *C. 1902* [1] 420).
- \*21) Amid d.  $\beta$ -Phenylakrylsäure. Sm. 147° (*B.* 34, 186; *A.* 320, 87).
- 39) isom. Acetylanhydroformaldehydanilin (*C. 1901* [2] 73).
- $C_6H_5ON_3$  \*10) 4-Oxy-1-Phenyl-3-Methyl-1,2,5-Triazol. Sm. 140—142° (*J. pr.* [2] 64, 229).

- $C_9H_9ON_3$  28) 5-Oxy-1-Methyl-3-Phenyl-1,2,4-Triazol. Sm. 218—219°. Ag (Soc. 79, 662).
- 29) Aldehyd d. 2,4-Dimethyldiazobenzolimid-6-Carbonsäure. Sm. 33,5—34° (B. 34, 1317; B. 34, 3877 C. 1902 [1] 116).
- 30) Nitril d.  $\alpha$ -Methylnitrosamido- $\alpha$ -Phenylessigsäure. Sm. 143° (B. 31, 2717). — \*II, 819.
- 31) Nitril d.  $\beta$ -Phenylureidoessigsäure. Sm. 165° (J. pr. [2] 65, 190 C. 1902 [1] 982).
- 32) Hydrazid d. Indol-2-Carbonsäure. Sm. 241° (G. 32 [1] 252 C. 1902 [1] 1230).
- $C_9H_9OBr_3$  33) Azid d.  $\beta$ -Phenylpropionsäure (J. pr. [2] 64, 305).
- \*3) 3,6-Dibrom-5-Oxy-2,4-Dimethyl-1-Brommethylbenzol. Sm. 128° (B. 35, 131 C. 1902 [1] 466).
- 9) 3,6-Dibrom-5-Oxy-1,2-Dimethyl-4-Brommethylbenzol. Sm. 119,5° (B. 35, 797 C. 1902 [1] 725).
- $C_9H_9OJ_3$  1) Propyläther d. 2,4,6-Trijod-1-Oxybenzol. Sm. 81° (C. r. 133, 161).
- $C_9H_9O_2N$  \*42) Phenylamid d. Brenztraubensäure. Sm. 105° (B. 34, 1146).
- 58) Methylenäther d. 3,4-Dioxy-1-Methylimidomethylbenzol (Piperonylenmethylamin). Sm. 46°; Sd. 148°<sub>16</sub> (B. 35, 420 C. 1902 [1] 656).
- 59) Methyl-2-Formylamidophenylketon. Sm. 79° (H. 33, 40 2; B. 34, 2708).
- 60) 4-[ $\alpha$ -Diketobutyl]pyridin. Sm. 62°; Sd. 145—147°<sub>18</sub>. (2HCl, PtCl<sub>4</sub>) (M. 22, 616).
- 61) Methyläther d. 3-Oxy-1-Methylbenzoxazol. Sm. 57° (B. 35, 1480 C. 1902 [1] 1209).
- 62) Lakton d. 4-[ $\beta$ -Oxypropyl]pyridin-3-Carbonsäure. (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 4340 C. 1902 [1] 321).
- 63) Methylester d. 2-Methylenamidobenzol-1-Carbonsäure. Sm. 116,5° (117°) (J. pr. [2] 63, 387; D.R.P. 136779; C. 1902 [2] 1351).
- 64) Amid d. 1-Methylbenzol-2-Ketocarbonsäure. Sm. 130° (C. 1901 [2] 938).
- 65) polym. Phenylamid d. Brenztraubensäure. Sm. 196° (B. 34, 1147).
- $C_9H_9O_2N_3$  \*21) 5-Oxy-3-Keto-1-Methyl-2-Phenyl-2,3-Dihydro-1,2,4-Triazol. Sm. 183°. Ag (B. 35, 558 C. 1902 [1] 635).
- 24) 5-Keto-3-Oxy-4-Methyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 224° (225°). Ag (B. 34, 2332; B. 35, 972 C. 1902 [1] 880; B. 35, 558 C. 1902 [1] 635).
- 25) Aldehyd d. 2,4-Dimethyldiazobenzolimid-6-Carbonsäure. Sm. 156° u. Zers. (B. 34, 1320).
- 26) Imid d.  $\alpha\gamma$ -Dicyan- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Ag<sub>2</sub> (C. 1901 [1] 578).
- $C_9H_9O_2Cl$  23) Aldehyd d. 6-Oxy-3-Chlormethyl-1-Methylbenzol-5-Carbonsäure. Sm. 82° (B. 34, 2458).
- 24) Chlorid d.  $\alpha$ -Oxypropionphenyläthersäure. Sd. 146—147°<sub>55</sub> (B. 34, 1839; B. 35, 3565 C. 1902 [2] 1313).
- $C_9H_9O_2Br_3$  \*4) 3,6-Dibrom-4-Keto-1-Oxy-2,5-Dimethyl-1-Brommethyl-1,4-Dihydrobenzol. Sm. 158° (B. 35, 433 C. 1902 [1] 641).
- 6)  $\alpha$ -Methyläther d. 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 112° (A. 322, 234 C. 1902 [2] 278).
- 7)  $\alpha$ -Methyläther d. 2,3,5-Tribrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 97° (A. 322, 202 C. 1902 [2] 267).
- 8) 4-Methyläther d. 2,5,6-Tribrom-3-Oxy-4-Oxymethyl-1-Methylbenzol. Sm. 62—63° (B. 35, 143 C. 1902 [1] 467).
- $C_9H_9O_3N$  \*11) 3-Acetylamidobenzol-1-Carbonsäure. Sm. 248° (B. 35, 113 C. 1902 [1] 414).
- \*14) Hippursäure (B. 34, 2675; H. 35, 324 C. 1902 [2] 529).
- \*15) Phenylformylamidoessigsäure. Sm. 125° (B. 34, 1648).
- \*28) Aldehyd d. 4-Nitro-1,3-Dimethylbenzol-5-Carbonsäure (B. 34, 1316).
- 43) Methyläther d.  $\beta$ -Nitro- $\alpha$ -[4-Oxyphenyl]äthen. Sm. 87° (C. r. 135, 42 C. 1902 [2] 449).
- 44) Allyläther d. 4-Nitro-1-Oxybenzol. Sm. 36° (B. 34, 1940).
- 45) 3,4-Methylenäther d.  $\beta$ -Oximido- $\alpha$ -[3,4-Dioxyphenyl]äthan. Sm. 120° (C. r. 135, 42 C. 1902 [2] 449).
- 46) 6-Amido-1-Methylbenzol-3-Ketocarbonsäure. Sm. 163—164° u. Zers. (C. 1901 [1] 238).

- $C_6H_5O_2N$  47) 4-Methylamidobenzol-1-Ketocarbonsäure. Sm. 155—157° (C. 1901 [1] 238).
- 48) Methylester d. 2-Formylamidobenzol-1-Carbonsäure. Sm. 54° (J. pr. [2] 64, 80).
- 49) Aethylester d. 2-Nitrosobenzol-1-Carbonsäure. Sm. 120—121° (C. 1901 [1] 1190; B. 34, 2044). — \*II, 770.
- $C_6H_5O_2N_3$  17)  $\alpha$ -Phenylnitrosohydrazon- $\alpha$ -Oxy- $\beta$ -Ketopropan. Sm. 85—85,5° (B. 34, 543; J. pr. [2] 64, 242).
- $C_6H_5O_2Cl$  \*9) 5-Chlor-2-Oxybenzyläther-1-Carbonsäure. Sm. 118° (G. 32 [1] 543 C. 1902 [2] 638).
- \*11) Methylester d. 4-Oxy-1-Chlormethylbenzol-3-Carbonsäure. Sm. 65—66° (B. 35, 130 C. 1902 [1] 465).
- 19) Chlorid d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 70°; Sd. 275° (M. 22, 428).
- $C_6H_5O_2Cl_3$  \*2) Trimethyläther d. 2,4,6-Trichlor-1,3,5-Trioxymethylbenzol. Sm. 130 bis 131° (M. 23, 583 C. 1902 [2] 739).
- $C_6H_5O_2Br$  18) Aethylester d. 3-Brom-4-Oxybenzol-1-Carbonsäure. Sm. 103°; Sd. 270—274° u. ger. Zers. (M. 22, 439).
- $C_6H_5O_2Br_3$  5) 3,6-Dibrom-5-Oxy-1-Brommethyl-2,4-Di[Oxymethyl]benzol. Sm. 153° u. Zers. (B. 35, 147 C. 1902 [1] 468).
- $C_6H_5O_2J$  5) Aldehydd. 3,4-Dioxy- $\beta$ -Jodmethylbenzol-3-Methyläther-1-Carbonsäure. Sm. 157—158° (C. 1901 [1] 1126).
- $C_6H_5O_2N$  \*5) Phenylamidoformoxylessigsäure. Sm. 141°.  $NH_4$ , Na +  $2H_2O$ , Ba +  $3H_2O$ , Ag (Bl. [3] 27, 444 C. 1902 [2] 34).
- \*6) 2-Carboxyphenylamidoessigsäure. Sm. 207° (J. pr. [2] 63, 395; C. 1901 [1] 978; 1901 [2] 73, 1185; B. 34, 1646; D.R.P. 127178 C. 1902 [1] 151; D.R.P. 127577 C. 1902 [1] 338).
- \*35)  $\alpha$ -Phenylamidomethan- $\alpha$ -Dicarbonsäure (Phenylamidomalonsäure). Sm. 118—119°. Ca,  $Ag_2$ , Anilinsalz (B. 35, 513 C. 1902 [1] 657).
- \*36) 2,4-Dimethylpyridin-3,5-Dicarbonsäure +  $2H_2O$ . Sm. 256° u. Zers. (A. 322, 375 C. 1902 [2] 736).
- \*47) Methylester d. 2-Nitro-1-Methylbenzol-4-Carbonsäure. Sm. 49° (R. 20, 158).
- \*48) Dimethylester d. Pyridin-2,3-Dicarbonsäure. HCl (M. 22, 580).
- 73) 4-Amido-3-Oxybenzyläther-1-Ketocarbonsäure. Sm. 147 bis 148° u. Zers. (C. 1901 [1] 238).
- 74) 1,3-Methylbetaïn d. Pyridin-3,4-Dicarbonsäure-4-Methylester. Sm. 218° (M. 23, 768 C. 1902 [2] 1056).
- 75) Methylester d. 2-Nitrophenylessigsäure. Sd. 264° (C. 1901 [2] 926).
- 76) Methylester d. 4-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 69° (R. 20, 171).
- 77) Methylester d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 66° (R. 20, 172).
- 78) Methylester d. 4-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 72,5° (R. 20, 163).
- 79) 2-Methylester d. Pyridin-2,3-Dicarbonsäure-1,3-Methylbetaïn. Sm. 163° u. Zers. (M. 22, 371).
- 80) Dimethylester d. Pyridin-3,4-Dicarbonsäure. Sd. 169—171°<sub>23</sub> (M. 23, 252 C. 1902 [1] 1368).
- $C_6H_5O_2Br$  4) Methylester d. 3-Brom-4,6-Dimethyl-1,2-Pyron-5-Carbonsäure. Sm. 135° (B. 35, 790 C. 1902 [1] 761).
- $C_6H_5O_2Cl$  1) Aethylester d. 2-Chlor-3,4,5-Trioxymethylbenzol-1-Carbonsäure +  $H_2O$ . Sm. 106—107° (wasserfrei) (G. 31 [2] 187; G. 32 [1] 565 C. 1902 [2] 639).
- $C_6H_5O_2N$  11) 3- oder 4-Aethylester d. 2,6-Dioxypyridin-3,4-Dicarbonsäure. Zers. oberhalb 215° (B. 34, 3714 C. 1902 [1] 50).
- $C_6H_5O_2N_3$  \*9) Methylläther d. 2,3-Dinitro-4-Acetylamido-1-Oxybenzol. Sm. 230 bis 231° (Soc. 81, 990 C. 1902 [2] 697).
- \*17) Methylläther d. 4,5-Dinitro-2-Acetylamido-1-Oxybenzol. Sm. 162 bis 163° (C. 1901 [1] 739; 1901 [2] 97).
- $C_6H_5NS$  \*5) 2,4-Dimethylphenylsenfö. Sm. 31,5° (J. pr. [2] 65, 378 C. 1902 [1] 1329).
- 15)  $\alpha$ -Rhodanäthylbenzol. Sd. 157—159°<sub>35</sub> (Am. 26, 202).
- 16) 3-Rhodanmethyl-1-Methylbenzol. Sd. 147°<sub>12</sub> (Am. 26, 203).
- 17) 4-Rhodanmethyl-1-Methylbenzol (4-Methylbenzylrhodanid). Sm. 134° (C. 1902 [1] 1011).

- $C_8H_5N_3S$  7) 3-Merkapto-5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 163—164° (*Am.* 27, 267 *C.* 1902 [1] 1299).  
 8) 5-Merkapto-1-Methyl-2-Phenyl-1,3,4-Triazol. Sm. 163—164° (*Soc.* 79, 668).  
 9) 5-Methylamido-2-Phenyl-1,3,4-Thiodiazol. Sm. 183—184° (2 HCl, PtCl<sub>4</sub>) (*Soc.* 79, 59).  
 10) 2-Imido-3-Methyl-5-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 245—246°. HCl, (2HCl, PtCl<sub>4</sub>) (*Soc.* 79, 59).
- $C_8H_5N_3S_2$  3) 2-Methylphenylthiuret. Sm. 87°. HCl, HJ (D.R.P. 68697). — \*II, 255.  
 4) 4-Methylphenylthiuret. Sm. 101°. HCl, HJ, Salicylat, o-Kresotinat (D.R.P. 68697). — \*II, 274.
- $C_8H_5N_3S$  1) Phenylamid d. 1,4-Dihydro-1,2,4,5-Tetrazin-1-Thiocarbonsäure. Sm. 153—154° (*Soc.* 81, 262 *C.* 1902 [1] 817).
- $C_8H_{10}ON_2$  \*6)  $\alpha$ -Acetyl- $\beta$ -Benzylidenhydrazin. Sm. 134° (*B.* 35, 3236 *C.* 1902 [2] 1044).  
 \*31) Nitril d. 4-Aethoxyphenylamidoameisensäure. Sm. 87° (*J. pr.* [2] 65, 380 *C.* 1902 [1] 1329).  
 \*37) 2-Keto-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm. 113° (*B.* 34, 939).  
 38) Methylenhydrazid d. Phenylessigsäure (*J. pr.* [2] 64, 317).
- $C_8H_{10}ON_4$  \*7) Nitril d. 6-Ureido-2,4-Dimethylpyridin-3-Carbonsäure. Sm. 145° (*Soc.* 81, 112 *C.* 1902 [1] 427).
- $C_8H_{10}OCl_2$  2) 4-Keto-1-Dichlormethyl-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 56° (*B.* 35, 470 *C.* 1902 [1] 647).
- $C_8H_{10}OJ_2$  1) Propyläther d. 2,4-Dijod-1-Oxybenzol. Sm. 32° (*C. r.* 133, 160).  
 2) Propyläther d. 2,6-Dijod-1-Oxybenzol. Sd. 138—140°<sub>83</sub> (*Bl.* [3] 27, 400 *C.* 1902 [1] 1330).  
 3) Isopropyläther d. 2,4-Dijod-1-Oxybenzol. Sd. 235—237° (*C. r.* 133, 160).  
 4) Isopropyläther d. 2,6-Dijod-1-Oxybenzol. Sd. 198—201°<sub>83</sub> (*Bl.* [3] 27, 400 *C.* 1902 [1] 1330).
- $C_8H_{10}OS$  3) 4-Methylphenylester d. Thiolessigsäure. Sd. 240—243°<sub>700</sub> (*Bl.* [3] 27, 690 *C.* 1902 [2] 447).
- $C_8H_{10}O_2N_2$  \*16)  $\alpha$ -Phenylhydrazonpropionsäure. Sm. 181—182° (*Bl.* [3] 25, 696).  
 \*28) Amid d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 177° (*B.* 35, 3481 *C.* 1902 [2] 1318).  
 \*45) Methyläther d. Benzoylimidoamidooxymethan. Sm. 76,5° (*Am.* 26, 250).  
 47)  $\alpha$ -Nitro- $\beta$ -Phenylimidopropan (Anilnitroaceton). Sm. 87° (*A.* 319, 250 *C.* 1902 [1] 189).  
 48) Monooxim d. 4-[ $\alpha\gamma$ -Diketobutyl]pyridin. Sm. 164—165° (*M.* 22, 620).
- $C_8H_{10}O_2N_4$  9) 4-Methylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 174—175° (*C.* 1901 [1] 936).
- $C_8H_{10}O_2Br_2$  \*10) 1-Aethyläther d. 3,5-Dibrom-4-Oxy-1-Oxymethylbenzol (*B.* 35, 462 *C.* 1902 [1] 646).  
 11)  $\alpha$ -Methyläther d. 3,5-Dibrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 100—101° (*A.* 322, 238 *C.* 1902 [2] 278).
- $C_8H_{10}O_2S$  7) Merkaptoessig-2-Methylphenyläthersäure. Sm. 106°. Ba (*Bl.* [3] 27, 692 *C.* 1902 [2] 447).  
 8) Merkaptoessig-4-Methylphenyläthersäure. Sm. 90°. NH<sub>4</sub> + 2H<sub>2</sub>O, Ba, Ag (*Bl.* [3] 27, 691 *C.* 1902 [2] 447).
- $C_8H_{10}O_3N_3$  \*14) 3-Aethylnitrosamidobenzol-1-Carbonsäure. Sm. 133—135° (*B.* 34, 1645).  
 \*33) Methylamid d. 4-Nitrophenylessigsäure. Sm. 159° (*Soc.* 79, 1353 *C.* 1902 [1] 25).  
 55) 2-Aethylnitrosamidobenzol-1-Carbonsäure. Sm. 90—91° (*B.* 34, 1645).  
 56) 2-Methylphenylnitrosamidoessigsäure. Sm. 44—45° (*B.* 34, 1646 Anm., 1650).  
 57) 5-Amido-2-Acetylamidobenzol-1-Carbonsäure (D.R.P. 133679 *C.* 1902 [2] 554).  
 58)  $\alpha$ -Phenylureidoessigsäure ( $\beta$ -Phenylhydantoinsäure). K (*J. pr.* [2] 66, 233 *C.* 1902 [2] 1122).  
 59) Aldehyd d. 3-Nitro-4-Dimethylamidobenzol-1-Carbonsäure. Sm. 103—105° (*B.* 35, 3576 *C.* 1902 [2] 1384).

- $C_9H_{10}O_3N_2$  60)  $\alpha$ -Amid d. 2-Carboxylphenylamidoessigsäure. Sm. 195° (C. 1901 [1] 978).  
 61) Oxyamid d. 4-Methylphenyloxaminsäure. Sm. 155° u. Zers. (Soc. 79, 843).  
 62) Methylamid d. 4-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 160° (R. 20, 171).  
 63) Methylamid d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 131 bis 132° (R. 20, 172).  
 64) Methylamid d. 4-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 135 bis 136° (R. 20, 164).  
 65) Methylamid d. 2-Nitro-1-Methylbenzol-4-Carbonsäure. Sm. 149° (R. 20, 159).  
 66) Dimethylamid d. 2-Nitrobenzol-1-Carbonsäure. Sm. 78° (R. 20, 181 Anm.).  
 67) Aethylidenhydrazid d. 3-Oxyphenylkohlenensäure. Sm. 150° (A. 217, 197).  
 68) Aethylidenhydrazid d. 4-Oxyphenylkohlenensäure. Sm. 177° (A. 317, 201).
- $C_9H_{10}O_3N_4$  9)  $\alpha$ -[3-Nitrobenzyliden]amido- $\alpha$ -Methylharnstoff. Sm. 207—208° (Soc. 79, 667).  
 10)  $\beta$ -Phenyl- $\alpha$ -Nitrosohydrazid d. Methyloxaminsäure. Sm. 115—116° (B. 35, 3687 C. 1902 [2] 1451).
- $C_9H_{10}O_3Br_2$  4) 3,6-Dibrom-1-Oxy-4-Keto-2,5-Dimethyl-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 154° u. Zers. (B. 35, 451 Anm. C. 1902 [1] 644).  
 5) 4-Aethyläther d. 3,5-Dibrom-2,4,6-Trioxyl-1-Methylbenzol. Sm. 115° (M. 23, 568 C. 1902 [2] 738).
- $C_9H_{10}O_3S$  \*5) 2,3-Dihydroinden-4-Sulfonsäure (B. 34, 1257).  
 $C_9H_{10}O_3Hg$  \*2) 1-Acetat d. 4-Methoxyphenylquecksilberoxydhydrat. Sm. 176,5° (B. 35, 2867 C. 1902 [2] 1039).  
 3) 1-Acetat d. 6-Oxy-3-Methylphenylquecksilberhydroxyd. Sm. 163° u. Zers. (B. 35, 2858 C. 1902 [2] 1038).
- $C_9H_{10}O_4N_2$  \*28) Aethyl ester d. 4-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 89° (B. 34, 4352; M. 23, 430 C. 1902 [2] 359).  
 \*29) Aethyl ester d. 5-Nitro-2-Amidobenzol-1-Carbonsäure. Sm. 146° (B. 34, 4353; M. 23, 434 C. 1902 [2] 359).  
 43) 6-Nitro-4-Amido-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 190° (B. 34, 31). — \*II, 841.  
 44) 2- oder 4-Nitro-4- oder 2-Amido-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 277,5° (B. 34, 32). — \*II, 841.  
 45) Acetat d. Phenylloxaminsäureoxyamid. Na (Soc. 79, 842).
- $C_9H_{10}O_4S_2$  2) Cyklo-o-Xylylendisulfonmethan. Sm. oberh. 300° (B. 35, 1393 C. 1902 [1] 1096).
- $C_9H_{10}O_5S$  10) 2-Methoxyphenylsulfonessigsäure. Sm. 138° (J. pr. [2] 66, 147 C. 1902 [2] 797).  
 11) 1-Aethyl ester d. Benzol-1-Carbonsäure-4-Sulfonsäure. Ba +  $1\frac{1}{2}H_2O$  (Am. 27, 483 C. 1902 [2] 392).
- $C_9H_{10}N_3S_2$  \*1) Phenylhydrazonmethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan. Sm. 92° (J. pr. [2] 65, 477 C. 1902 [2] 28).
- $C_9H_{11}ON$  \*1) 2-Nitroso-1,3,5-Trimethylbenzol (B. 34, 3879 C. 1902 [1] 116).  
 \*25) 2-Butyrylpyridin (Propyl-2-Pyridylketon). Sd. 217—218°. Pikrat (B. 34, 4243 C. 1902 [1] 209).  
 \*33) Aldehyd d. 4-Dimethylamidobenzol-1-Carbonsäure (B. 35, 3569 C. 1902 [2] 1383).  
 \*47) Methylamid d. 1-Methylbenzol-4-Carbonsäure. Sm. 145—145,5° (R. 20, 157).  
 \*49) Aethylamid d. Benzolcarbonsäure. Sm. 71°; Sd. 285°<sub>715</sub>. HCl, Na (Soc. 79, 403).  
 \*53) 2-Methylphenylamid d. Essigsäure. Sm. 112—115° (C. 1902 [2] 792; B. 35, 110 C. 1902 [1] 414).  
 70) Methyläther d.  $\alpha$ -Phenylimido- $\alpha$ -Oxyäthan. Sd. 197° (Soc. 79, 692).  
 71) Allyläther d. 4-Amido-1-Oxybenzol. Fl. HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 1940).  
 72) 4-Methylbenzimidomethyläther. Sd. 105,5°<sub>105</sub> (Am. 23, 146). — \*II, 828.



- $C_9H_{11}ON$  73) **N-Methylisoacetophenonoxim.** + NaJ (*Soc.* 79, 638).  
 74) **Methyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenyläthan.** *Sd.* 214—216° u. Zers. (*Soc.* 79, 637).  
 75) **2,5-Dimethylbenzaldoxim.** *Sm.* 84—84,5° (*C.* 1901 [2] 772).  
 76) **4-Butyrylpyridin** (Propyl-4-Pyridylketon). *Sd.* 229—231°. Pikrat (*B.* 34, 4252 *C.* 1902 [1] 210).  
 77) **2-Phenyltetrahydrooxazol.** *Sd.* 284°<sub>745</sub>. Pikrat (*B.* 34, 3487).  
 78) **Methylamid d. 1-Methylbenzol-2-Carbonsäure.** *Sm.* 75° (*R.* 20, 170).  
 79) **Methylamid d. 1-Methylbenzol-3-Carbonsäure.** *Sm.* 44,5—45° (*R.* 20, 163).
- $C_9H_{11}ON_3$  \*1)  **$\alpha$ -Phenylhydrazon- $\alpha$ -Amido- $\beta$ -Ketopropan.** *Sm.* 183° (*J. pr.* [2] 64, 234).  
 \*5)  **$\alpha$ -Semicarbazon- $\alpha$ -Phenyläthan.** *Sm.* 162° (192°; 196—197°) (*Bl.* [3] 25, 420; *B.* 34, 1797; *B.* 34, 3928 *C.* 1902 [1] 123; *B.* 34, 4301 *C.* 1902 [1] 304).  
 \*8) **N-Methylphenylazoisooacetaldoxim** (Phenyläthenyloxymethyl-R-Triazan). *Sm.* 96—96,5° (*B.* 35, 750 *C.* 1902 [1] 719; *B.* 35, 757 *C.* 1902 [1] 726; *B.* 35, 1011 *C.* 1902 [1] 817).  
 \*9)  **$\alpha$ -Oximido- $\alpha$ -[4-Methylphenyl]azoäthan.** *Sm.* 135° (*B.* 35, 3271 *C.* 1902 [2] 1251).  
 \*10) **Methyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan** (M. d. Oxyphenyläthenyl-R-Triazan). *Sd.* 133—134°<sub>12</sub> (*B.* 35, 752 *C.* 1902 [1] 719; *B.* 35, 757 *C.* 1902 [1] 726; *B.* 35, 1011 *C.* 1902 [1] 817).  
 11)  **$\alpha$ -Benzylidenamido- $\alpha$ -Methylharnstoff.** *Sm.* 159—160° (*Soc.* 79, 662).  
 12)  **$\alpha$ -Oximido- $\alpha$ -Phenylazopropan.** *Sm.* 77,5—78° (*B.* 35, 1092 *C.* 1902 [1] 996).  
 13) **Verbindung** (aus Methylbutylketon, Cyanessigsäureäthylester u.  $NH_3$ ). *Sm.* 177° (*C.* 1897 [1] 904). — \*I, 677.
- $C_9H_{11}OCl$  9)  **$\alpha$ -Chlor- $\beta$ -Oxy- $\beta$ -Phenylpropan.** *Sd.* 130—132°<sub>18</sub> (*C. r.* 134, 775 *C.* 1902 [1] 1093).
- $C_9H_{11}OB$  1) **2,4,5-Trimethylphenylboroxyd.** *Sm.* 211° (*A.* 315, 32).
- $C_9H_{11}O_2N$  \*23) **Methyläther d. 4-Acetylamido-1-Oxybenzol.** *Sm.* 130—132° (*B.* 35, 111 *C.* 1902 [1] 414).  
 \*47)  **$\alpha$ -Phenylamidopropionsäure.** *Sm.* 162—162,5° (*B.* 34, 2074; *B.* 35, 515 *C.* 1902 [1] 658).  
 \*51) **r- $\alpha$ -Amido- $\beta$ -Phenylpropionsäure** (*H.* 33, 172, 414; *H.* 35, 77 *C.* 1902 [1] 1018; *H.* 35, 210 *C.* 1902 [2] 272; *H.* 35, 307 *C.* 1902 [2] 264).  
 \*75) **4-Amido-1,3-Dimethylbenzol-5-Carbonsäure.** *Sm.* 191° (*B.* 34, 1321).  
 \*83) **Äthylester d. Phenylamidoameisensäure** (*C.* 1901 (2) 260).  
 \*85) **Äthylester d. 3-Amidobenzol-1-Carbonsäure.** *Sd.* 157°<sub>11</sub>. Pikrat (*A.* 319, 338 *C.* 1902 [1] 351).  
 \*86) **Äthylester d. 4-Amidobenzol-1-Carbonsäure.** *Sm.* 91—92° (*A.* 320, 135).  
 \*93) **Amid d.  $\alpha$ -Oxypropionphenyläthersäure.** *Sm.* 132—133° (*B.* 34, 1837).  
 \*118) **Methylester d. 2-Methylamidobenzol-1-Carbonsäure.** *Sd.* 130 bis 131°<sub>18</sub> (*C.* 1901 [2] 381; 1902 [2] 448; *C. r.* 135, 581 *C.* 1902 [2] 1257).  
 119) **Methylenäther d. 3,4-Dioxy-1-Methylamidomethylbenzol** (Piperonylmethylamin). *Sd.* 146°<sub>12</sub>. HCl, (2HCl, PtCl<sub>4</sub>), HBr, Pikrat (*B.* 35, 420 *C.* 1902 [1] 656).  
 120) **N-Methyläther d. 4-Methylbenzhydroxamsäure** (*C.* 1899 [2] 245).  
 121) **4-Methyläther d.  $\beta$ -Oximido- $\alpha$ -[4-Oxyphenyl]äthan.** *Sm.* 112° (*C. r.* 135, 42 *C.* 1902 [2] 449).  
 122) **2,3,4-Trimethylpyridin-5-Carbonsäure.** *Sm.* 257° u. Zers. (*A.* 322, 373 *C.* 1902 [2] 736).  
 123) **Betain d.  $\alpha$ -Pyridyliumbuttersäure.** 2 + HBr (*C.* 1901 [1] 744).  
 124) **Äthylester d. 2-Methylpyridin-6-Carbonsäure.** *Sd.* 245° (*B.* 34, 4252 *C.* 1902 [1] 210).  
 125) **Methyl-4-Oxyphenylamid d. Essigsäure.** *Sm.* 240—241° (D.R.P. 89 595, 93 307). — \*II, 402.
- $C_9H_{11}O_2N_3$  \*11)  **$\beta$ -[3-Nitrophenyl]hydrazonpropan** (*B.* 34, 1201).  
 \*24) **Phenylhydrazid d. Methylloxaminsäure** (*B.* 35, 3687 *C.* 1902 [2] 1451).  
 28) **4-Methylphenylamidoformylharnstoff** (4-Tolylbiuret). *Sm.* 194° u. Zers. (*Soc.* 79, 844).

- $C_9H_{11}O_2N_3$  29) Methyläther d.  $\alpha$ -Phenylamidoformylimido- $\alpha$ -Amido- $\alpha$ -Oxymethan. Sm. 89,5—90°. HCl (*Am.* 26, 253).
- 30) Methyläther d.  $\alpha$ -Isonitro- $\alpha$ -Phenylazoäthan. Sm. 71,5—72° (*B.* 35, 68 *C.* 1902 [1] 403).
- 31)  $\alpha$ -Semicarbazon- $\alpha$ -[4-Oxyphenyl]äthan. Sm. 199° (*C. r.* 133, 743).
- 32) Amid d. Phenylamidomalonsäure. Sm. 156° (*B.* 35, 513 *C.* 1902 [1] 657).
- $C_9H_{11}O_3N$  \*13) Aethyläther d. 4-Nitro-3-Oxy-1-Methylbenzol. Sm. 55° (*B.* 34, 4207 *C.* 1902 [1] 263).
- \*28) 1-Tyrosin (*H.* 33, 182; *A.* 319, 65; *C.* 1902 [1] 270; *H.* 35, 308 *C.* 1902 [2] 264).
- \*52) Amid d. Oxyessig-2-Methoxyphenyläthersäure. Sm. 138° (*J. pr.* [2] 65, 480 *C.* 1902 [2] 23).
- \*55) Damascenin (*C.* 1901 [1] 633).
- 61) Propyläther d. 4-Nitro-1-Oxybenzol. Sd. 285—287° (*B.* 34, 1937).
- 62) 1-Methyläther d. 4-Acetylamido-1,3-Dioxybenzol. Sm. 164—165° (*C.* 1901 [2] 96).
- 63) 3,4-Dimethyläther d. 3,4-Dioxy-1-Oxidomethylbenzol. Sm. 94 bis 95° (*M.* 23, 913 *C.* 1902 [2] 1450).
- 64) 6-Aethyläther d. 1-Oxido-6-Oxy-2-Keto-4-Methyl-1,2-Dihydrobenzol. Sm. 113—114° (*M.* 22, 251). — \*II, 582.
- 65) 2-Aethoxybenzhydroxamsäure. Sm. 139° (*G.* 31 [2] 32).
- 66) Säure + 3H<sub>2</sub>O (aus Damascenin). Sm. 76—77° (140—141° wasserfrei). HCl + H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub> + 4H<sub>2</sub>O) (*C.* 1901 [1] 633).
- 67) 4-Amidoformiat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 140° (D.R.P. 58129). — \*II, 580.
- 68) Amid d. 4-Oxy-1-Methoxybenzol-3-Carbonsäure. Sm. 107—108° (*B.* 35, 131 *C.* 1902 [1] 465).
- 69) Amid d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 164° (*M.* 22, 429).
- 70) Phenylamid d. 1- $\alpha$ - $\beta$ -Dioxypropionsäure. Sm. 113—113,5° (*Soc.* 79, 270).
- 71) Phenylamid d. i- $\alpha$ - $\beta$ -Dioxypropionsäure. Sm. 91° (*Soc.* 79, 270).
- 72) 4-Oxyphenylamid d.  $\alpha$ -Oxypropionsäure. Sm. 137—138° (D.R.P. 90412, 90595). — \*II, 408.
- $C_9H_{11}O_3N_3$  15)  $\alpha$ -Acetyl- $\beta$ -[2-Nitro-4-Methylphenyl]hydrazin. Sm. 161° (*Soc.* 79, 1144).
- $C_9H_{11}O_4N$  \*7) Dimethyläther d. 6-Nitro-3,4-Dioxy-1-Methylbenzol. Sm. 120° (118°) (*B.* 35, 2609 *C.* 1902 [2] 595; *Soc.* 81, 1052 *C.* 1902 [2] 749; *B.* 35, 2947 *C.* 1902 [2] 1051).
- 27) 1-Methyläther-2-Aethyläther d. 5-Nitro-1,2-Dioxybenzol. Sm. 85 bis 86° (*C.* 1901 [1] 739).
- 28) 2,4-Dimethyläther d. 5-Nitroso-2,4,6-Triox-1-Methylbenzol. Sm. 160° (*M.* 22, 1005 *C.* 1902 [1] 186).
- 29) Aethylester d. 2,3-Diketo-5- oder 6-Methyl-1,2,3,4-Tetrahydro-pyridin-4-Carbonsäure. Sm. 223° (*B.* 35, 1553 *C.* 1902 [1] 1227).
- 30) Verbindung (aus Nitrooxydihydrotrimethylbrasilon) oder = (C<sub>9</sub>H<sub>11</sub>O<sub>4</sub>N)<sub>2</sub>. Sm. 205° (*Soc.* 81, 1051 *C.* 1902 [2] 749).
- $C_9H_{11}O_5N$  4) Aethylester d. 2-Amido-3,4,5-Trioxbenzol-1-Carbonsäure. HCl + H<sub>2</sub>O (*Soc.* 81, 76 *C.* 1902 [1] 194).
- 5) Diäthylester d. Cyanoxalessigsäure. Sm. 98° (*G.* 31 [1] 587). C 37,4 — H 3,8 — O 44,3 — N 14,5 — M. G. 289.
- $C_9H_{11}O_3N_3$  1) Methyläthyläther d. 4-Isonitroso-2,6-Dinitro-1,1-Dioxy-1,4-Dihydrobenzol. K (*Am.* 20, 444; *Am.* 323, 242 *C.* 1902 [2] 803).
- $C_9H_{11}NS$  \*8) Methylphenylamid d. Thioessigsäure. Sm. 58—59° (*J. pr.* [2] 66, 35 *C.* 1902 [2] 568).
- $C_9H_{11}NS_2$  \*1) Methyllester d. Methylphenylamidodithioameisensäure. Sm. 81,5°; Sd. 311° (*Bl.* [3] 27, 808 *C.* 1902 [2] 695).
- 6) Dimethyläther d. Phenylimidodimerkaptomethan. Sm. 36°; Sd. 300° (*Bl.* [3] 27, 811 *C.* 1902 [2] 695).
- 7) Aethylphenylamidodithioameisensäure. NH<sub>4</sub> (*Bl.* [3] 27, 808 *C.* 1902 [2] 695).
- 8) 2,4-Dimethylphenylamidodithioameisensäure. NH<sub>4</sub> (*J. pr.* [2] 65, 375 *C.* 1902 [1] 1329).

- $C_6H_{11}NS_2$  9) Benzylester d. Methylamidodithioameisensäure. Sm.  $49,5^\circ$  (Bl. [3] 27, 587 C. 1902 [2] 349; Bl. [3] 27, 813 C. 1902 [2] 695).
- $C_6H_{11}N_2Cl$  3) 3-Chlormethylat d. 1-Methylbenzimidazol +  $H_2O$ . Sm.  $240^\circ$  (wasserfrei). 2 +  $PtCl_4$ , +  $AuCl_3$  (B. 34, 937; B. 35, 1258 C. 1902 [1] 1061).
- $C_6H_{11}N_2J$  4) 3-Jodmethylat d. 1-Methylbenzimidazol. Sm.  $144^\circ$  (B. 34, 936; B. 35, 1258 C. 1902 [1] 1061).
- $C_6H_{11}N_3S$  2)  $\alpha$ -Thiosemicarbazon- $\alpha$ -Phenyläthan. Sm.  $108^\circ$ . Ag (B. 35, 2052 C. 1902 [2] 105).
- $C_6H_{11}Cl_2As$  1) 4-Isopropylphenyldichlorarsin. Sd.  $170^{0}_{30}$  (A. 320, 340 C. 1902 [1] 923).
- 2) 2,4,5-Trimethylphenyldichlorarsin. Sm.  $82,5^\circ$ ; Sd.  $190^{0}_{30}$  (A. 320, 339 C. 1902 [1] 923).
- $C_6H_{11}Br_2B$  1) Dibromid d. 2,4,5-Trimethylphenylborsäure. Sd.  $170-190^{0}_{18}$  (A. 315, 32).
- $C_6H_{12}ON$  1) Base (aus 2-Nitro-1-Nitromethyl-3,5-Dimethylbenzol). Sm.  $260^\circ$  (J. pr. [2] 58, 356). — \*II, 62.
- $C_6H_{12}ON_2$  \*18) 4-Amido-5-Oximidomethyl-1,3-Dimethylbenzol. Sm.  $170-171,5^\circ$  (B. 34, 1317).
- \*28) 2,4-Dimethylphenylharnstoff. Sm.  $206-207^\circ$  (J. pr. [2] 65, 378 C. 1902 [1] 1329).
- \*56) Äthyläther d. Phenylamidoimidooxymethan. Sd.  $138,5^{0}_{18}$ . HCl, (2HCl,  $PtCl_4$ ) (Am. 26, 214).
- 59) Methyläther d.  $\alpha$ -Imido- $\alpha$ -Methylphenylamido- $\alpha$ -Oxymethan. Sd.  $120^{0}_{11}$ . (2HCl,  $PtCl_4$ ) (Am. 26, 241).
- 60) 2-Oxy-1,3-Dimethyl-2,3-Dihydrobenzimidazol. Sm.  $74-75^\circ$  (B. 34, 937).
- 61) Amid d. 4-Dimethylamidobenzol-1-Carbonsäure. Sm.  $206^\circ$  (D.R.P. 77 329). — \*II, 791.
- 62) 2-Methylphenylamid d. Amidoessigsäure. Sm.  $66^\circ$  (D.R.P. 59 121, 59 874). — \*II, 251.
- 63) 3-Methylphenylamid d. Amidoessigsäure. Sm.  $74^\circ$  (D.R.P. 59 121, 59 874). — \*II, 261.
- 64) 4-Methylphenylamid d. Amidoessigsäure +  $xH_2O$ . Sm.  $94-95^\circ$  ( $107^\circ$  wasserfrei) (D.R.P. 59 121, 59 874). — \*II, 270.
- 65) Hydrazid d.  $\beta$ -Phenylpropionsäure. Sm.  $103^\circ$ . HCl (J. pr. [2] 64, 300).
- \*8) 4-Nitro-2-Äthylamido-1-Methylbenzol. Sm.  $81^\circ$  (B. 35, 329).
- \*13) 4-Nitro-2-Dimethylamido-1-Methylbenzol. Sm.  $14^\circ$ ; Sd.  $184^{0}_{77}$  ( $280^\circ$  u. Zers.) (C. 1902 [2] 377; J. pr. [2] 65, 249 C. 1902 [1] 1203).
- \*16) 3-Nitro-4-Dimethylamido-1-Methylbenzol. (4HCl, 2SnCl<sub>4</sub> + 3H<sub>2</sub>O) (J. pr. [2] 63, 355).
- \*22) Äthyläther d. 4-Oxyphenylharnstoff. Sm.  $171-172^\circ$  (J. pr. [2] 65, 379 C. 1902 [1] 1329).
- 41) 4-Nitro-3-Äthylamido-1-Methylbenzol. Sm.  $60^\circ$  (B. 34, 4207 C. 1902 [1] 263).
- 42) 6-Nitro-2-Dimethylamido-1-Methylbenzol. Sm.  $25-25,5^\circ$ ; Sd.  $191$  bis  $192^{0}_{10}$  (J. pr. [2] 65, 241 C. 1902 [1] 1203).
- 43) 5-Nitro-3-Dimethylamido-1-Methylbenzol. Sm.  $50-51^\circ$  (J. pr. [2] 65, 244 C. 1902 [1] 1203).
- 44) 2-Nitro-4-Dimethylamido-1-Methylbenzol. Sm.  $35^\circ$  (D.R.P. 69 188; J. pr. [2] 65, 247 C. 1902 [1] 1203). — \*II, 265.
- 45) 5-Nitroso-2-Äthylamido-4-Oxy-1-Methylbenzol. Sm.  $150^\circ$  (D.R.P. 82 627). — \*II, 438.
- 46) 5-Nitroso-2-Dimethylamido-4-Oxy-1-Methylbenzol. Sm.  $105^\circ$  ( $102^\circ$ ). Na, HCl (D.R.P. 78 924; C. 1902 [2] 378). — \*II, 438.
- 47)  $\alpha$ -Oxy- $\beta$ -Äthyl- $\alpha$ -Phenylharnstoff. Sm.  $93^\circ$  (G. 31 [2] 347 C. 1902 [1] 32).
- 48) Methyläther d. 2-Amidoacetylamido-1-Oxybenzol. Sm.  $32-33^\circ$  (D.R.P. 59 121, 59 874). — \*II, 389.
- 49) 5-Amido-2-Dimethylamidobenzol-1-Carbonsäure. Sm.  $178^\circ$ . HCl (C. 1901 [2] 1103).
- 50) 3-Methoxyphenylamid d. Amidoessigsäure. Sm.  $96^\circ$  (D.R.P. 59 121, 59 874). — \*II, 395.
- 51) 4-Methoxyphenylamid d. Amidoessigsäure. Sm.  $89^\circ$  (D.R.P. 59 121, 59 874). — \*II, 403.

- $C_9H_{13}O_2N_2$  52) Hydrazid d. Oxyessigbenzyläthersäure. Fl. (*J. pr.* [2] 51, 364). — \*II, 639.
- $C_9H_{13}O_3N_4$  11) 2,6-Diketo-1,3,7,8-Tetramethylpurin (8-Methylkaffein). Sm. 207 bis 208,5° (D.R.P. 128 212 *C.* 1902 [1] 549).  
 12) Di[5-Keto-3-Methyl-4,5-Dihydro-4-Pyrazolyl]methan. Sm. 326° u. Zers. (*A.* 323, 97 *C.* 1902 [2] 784).
- $C_9H_{13}O_3Br_2$  \*3) 4,4-Dibrom-3,5-Diketo-1,1,2-Trimethylhexahydrobenzol. Sm. 112,5° (*Soc.* 79, 146).
- $C_9H_{13}O_3S$  8) Methyl-2,4-Dimethylphenylsulfon. Sm. 55° (*J. pr.* [2] 66, 149 *C.* 1902 [2] 797).
- $C_9H_{13}O_3N_3$  7) Aethylester d. 5-Acetyl-4-Methylpyrazol-3-Carbonsäure. Sm. 123 bis 124°; Sd. 202°<sub>30</sub>. Ag (*J. pr.* [2] 65, 388 *C.* 1902 [1] 1365).
- $C_9H_{13}O_3N_4$  \*5) Methyläther d. 8-Oxy-2,6-Diketo-1,3,7-Trimethylpurin (*B.* 35, 1991 *C.* 1902 [2] 110).  
 \*9) Tetramethylharnsäure. Sm. 226° (*B.* 35, 1991 *C.* 1902 [2] 110).
- $C_9H_{13}O_4N_2$  4) Aethylester d. 4-Keto-1-Acetyl-4,5-Dihdropyrazol-3-Methylcarbonsäure. Sm. 116—117° (*J. pr.* [2] 64, 339).
- $C_9H_{13}O_4S$  11) 2-Methyläther d.  $\beta$ -[2-Oxyphenyl]sulfon- $\alpha$ -Oxyäthan. Sm. 82° (*J. pr.* [2] 66, 141 *C.* 1902 [2] 796).
- $C_9H_{13}O_5N_2$  3) Aethylester d. 2,6-Diamido-3,4,5-Trioxymethyl-1-Carbonsäure. 2HCl (*Soc.* 81, 78 *C.* 1902 [1] 194).
- $C_9H_{13}O_5S$  2) Aethylester d. 2-Methoxyphenylschwefelsäure. Sd. 200° u. Zers. (D.R.P. 73 165). — \*II, 548.  
 3) 3-Methoxyphenylester d. Aethylschwefelsäure. Sd. 218° (D.R.P. 75 456). — \*II, 570.  
 4) 4-Methoxyphenylester d. Aethylschwefelsäure. Sm. 36° (D.R.P. 75 456). — \*II, 572.  
 5) 2-Methoxy-4-Methylphenylester d. Methylschwefelsäure. Sd. 225° (D.R.P. 75 456). — \*II, 579.
- $C_9H_{12}NCl$  4) Chlormethyläthylphenylamin (*C.* 1902 [2] 340).
- $C_9H_{12}N_2S$  \*6) 2,4-Dimethylphenylthioharnstoff (*J. pr.* [2] 65, 378 *C.* 1902 [1] 1329).  
 14) Amid d.  $\alpha$ -Methylamido- $\alpha$ -Phenylthioessigsäure. Sm. 187° (*B.* 31, 2717). — \*II, 819.
- $C_9H_{13}ON$  36) 4-Oxy-1-Dimethylamidomethylbenzol. Sd. 200° u. Zers. (D.R.P. 92 309). — \*II, 437.  
 37) 4-Aethylamido-1-Oxymethylbenzol. Sm. 86° (D.R.P. 97 710 *C.* 1898 [2] 694). — \*II, 646.  
 38) 2-Dimethylamido-4-Oxy-1-Methylbenzol. Sm. 46°; Sd. 253°. HCl (D.R.P. 62367, 63238, 68558, 78924, 103645; *C.* 1902 [2] 377). — \*II, 437.  
 39) 2-Aethylamido-4-Oxy-1-Methylbenzol. Sm. 87° (D.R.P. 69 074, 69 596, 84 988, 86 967). — \*II, 437.  
 40) Propyläther d. 4-Amido-1-Oxybenzol. Fl. HCl, (2HCl, PtCl<sub>4</sub>) (*B.* 34, 1938).  
 41) 4,5-Dimethyl-3- $[\gamma$ -Butenyl]isoxazol. Sd. 112—114°<sub>30</sub> (*Bl.* [3] 27, 66 *C.* 1902 [1] 566).  
 42) 4- $[\beta$ -Oxyäthyl]-3-Aethylpyridin. Fl. (2HCl, PtCl<sub>4</sub>) (*B.* 35, 1355 *C.* 1902 [1] 1111).  
 43) Amid d. 3-Methyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sm. 146—147° (*A.* 323, 140 *C.* 1902 [2] 842).
- $C_9H_{13}ON_3$  \*13)  $\alpha$ -Oximido- $\alpha$ -[4-Methylphenyl]hydrazidoäthan. Sm. 122° (*B.* 35, 3271 *C.* 1902 [2] 1251).  
 14)  $\alpha$ -Phenylamido- $\alpha$ - $\beta$ -Dimethylharnstoff. Sm. 135—136° (*B.* 35, 1564 *C.* 1902 [1] 1231).  
 15)  $\alpha$ -Oximido- $\alpha$ -Phenylhydrazidopropan. Sm. 87,5—88° (*B.* 35, 1092 *C.* 1902 [1] 996).
- $C_9H_{13}OCl$  2) Chlorid d.  $\alpha$ -Oktin- $\alpha$ -Carbonsäure. Sd. 112—116°<sub>23-24</sub> (D.R.P. 133 631 *C.* 1902 [2] 553).
- $C_9H_{13}OCl_3$  1)  $\alpha\alpha\alpha$ -Trichlor- $\beta$ -Oxy- $\gamma$ -Nonin. Sd. 141,5—142°<sub>12</sub> (*C. r.* 134, 356 *C.* 1902 [1] 629).
- $C_9H_{13}O_2N$  \*6) Aethylester d. 2,4-Dimethylpyrrol-3-Carbonsäure. Sm. 75—76°; Sd. 181—182°<sub>35</sub> (*B.* 35, 1652 *C.* 1902 [1] 1357; *B.* 35, 3007 *C.* 1902 [2] 1121).
- $C_9H_{13}O_3Br$  \*5) 4-Brom-3,5-Diketo-1,1,2-Trimethylhexahydrobenzol. Sm. 151,5° (*Soc.* 79, 145).

- $C_9H_{13}O_2Br$  6) 5-Brom-6-Oxy-4-Keto-2-Isopropyl-1,2,3,4-Tetrahydrobenzol. Sm. 169° u. Zers. (Soc. 81, 679 C. 1902 [2] 115).  
 7) Methyläther d. 5-Brom-6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 104° (A. 322, 252 C. 1902 [2] 270).
- $C_9H_{13}O_2Br_3$  1) Tribromdihydroinfracampholensäure. Sm. 182° u. Zers. (Soc. 79, 114).  
 $C_9H_{13}O_3N$  \*16) Amylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylsäure (A. d. Formyleyanessigsäure). Fl. Na, Ba, Ag (Bl. [3] 25, 16, 37).  
 17) 2,4-Dimethyläther d. 5-Amido-2,4,6-Trioxyl-1-Methylbenzol. HCl (M. 22, 1006 C. 1902 [1] 186).  
 18) Aethylester d. 3,5-Dimethylisoxazol-4-Methylcarbonsäure. Sd. 152°<sub>25</sub> (Bl. [3] 25, 647).  
 19) Propylester d.  $\alpha$ -Cyan- $\beta$ -Oxyakrylathyläthersäure. Sm. 31°; Sd. 189°<sub>15</sub> (Bl. [3] 25, 25).
- $C_9H_{13}O_3N_3$  4) Semicarbazondimethylecyklopentancarbonsäure. Zers. bei 255° (Soc. 79, 780).  
 5) Aethylester d. 5-[ $\alpha$ -Oximidoäthyl]-4-Methylpyrazol-3-Carbonsäure. Sm. 165° (J. pr. [2] 65, 391 C. 1902 [1] 1365).
- $C_9H_{13}O_3As$  1) 4-Isopropylphenylarsinsäure. Sm. 152° (A. 320, 340 C. 1902 [1] 923).  
 2) 2,4,5-Trimethylphenylarsinsäure. Sm. 224° (A. 320, 340 C. 1902 [1] 923).  
 3) 2-Methoxyphenylester d. Kakodylsäure. Zers. bei 270° (C. 1901 [1] 227).
- $C_9H_{13}O_4N$  8) Diäthylester d.  $\alpha$ -Cyanäthan- $\alpha$ -Dicarbonsäure. Sd. 135°<sub>28</sub> (C. 1901 [1] 675).  
 9) Nitril d.  $\alpha$  $\gamma$ -Diacetoxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sd. 145 bis 147°<sub>14</sub> (M. 22, 447).
- $C_9H_{13}O_4N_3$  3) Aethylester d. 5-Keto-4-Aethoximido-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 116—117° (J. pr. [2] 64, 342).
- $C_9H_{13}O_4Br$  5) 3-Brom-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure (B. 34, 2473).  
 6)  $\alpha$ -Aethylester d.  $\gamma$ -Brom- $\alpha$ -Oxy- $\beta$ - $\beta$ -Dimethylpropan- $\alpha$  $\gamma$ -Dicarbonsäure- $\alpha$  $\gamma$ -Lakton. Sd. 201°<sub>18</sub> (Soc. 79, 756).
- $C_9H_{14}ON_2$  \*1) 4,6-Diamido-2-Oxy-1,3,5-Trimethylbenzol. Sm. 94—96° (M. 22, 984 C. 1902 [1] 185).
- $C_9H_{14}O_2N_2$  7) Nitrosodihydrolauro-laktam. Sm. 138—139° (B. 35, 1291 C. 1902 [1] 1103).  
 8) Methyllester d. 3-Methyl-5-Propylpyrazol-4-Carbonsäure. Sd. 179°<sub>10</sub> (C. 1901 [1] 1154).  
 9) Amylester d.  $\alpha$ -Cyan- $\beta$ -Amidoakrylsäure. Sm. 101° (Bl. [3] 25, 42).
- $C_9H_{14}O_2Cl_2$  2) Chlorid d. Heptan- $\delta\delta$ -Dicarbonsäure. Sd. 221—223° (B. 35, 855 C. 1902 [1] 746).
- $C_9H_{14}O_2Br_2$  7) 4,5-Dibrom-5-Oxy-3-Keto-1,1,2-Trimethylhexahydrobenzol. Sm. 87—88° (Soc. 79, 145).  
 8) Dibromdihydroinfracampholensäure. Sm. 125° u. Zers. (Soc. 79, 116).
- $C_9H_{14}O_4Br_2$  \*4) Diäthylester d. Citradibrombrenzweinsäure (B. 34, 4221).  
 6) Monoäthylester d.  $\alpha$  $\gamma$ -Dibrom- $\beta$ - $\beta$ -Dimethylpropan- $\alpha$  $\gamma$ -Dicarbonsäure. Fl. (Soc. 79, 755).  
 7) Diäthylester d. Dibrommesabrenzweinsäure. Sd. 152—153°<sub>13,5</sub> (B. 34, 4220 C. 1902 [1] 175).  
 C 37,2 — H 4,8 — O 38,6 — N 19,3 — M. G. 290.
- $C_9H_{14}O_7N_4$  1) Carbonyldi[Amidoacetylamidoessigsäure] (Carbonyldiglycylglycin). Sm. 232° (B. 35, 1102 C. 1902 [1] 910).
- $C_9H_{14}NBr_3$  1) Trimethylphenylammoniumtribromid. Sm. 112° (B. 31, 1349). — \*II, 152.
- $C_9H_{14}NJ$  \*1) Trimethylphenylammoniumjodid. Sm. 220° (B. 35, 771 C. 1902 [1] 720).
- $C_9H_{14}N_4S$  1) 3-Thiocarbonyl-5-Allylimido-4-Allyl-1-Methyltetrahydro-1,2,4-Triazol. HCl, HJ (B. 26, 2879). — \*I, 834.
- $C_9H_{15}ON$  \*17) N-Methylgranatonin (G. 32 [1] 260 C. 1902 [1] 1234).  
 30) 2-[ $\alpha$ -Oximidoäthyl]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 51 bis 52° (C. 1902 [1] 1294; A. 324, 90 C. 1902 [2] 1201).  
 31) 4-Oximido-1,1,5-Trimethyl-1,2,3,4-Tetrahydrobenzol (Oxim d. Trimethylecyklohexenon). Sm. 128—129°; Sd. 131—132°<sub>15</sub> (C. 1902 [1] 1295; A. 324, 103 C. 1902 [2] 1200).



- $C_9H_{15}ON$  32) Pulegonoxim. *Sd.* 120—125°<sub>11</sub> (*C.* 1902 [1] 1295).  
 33) Inn. Anhydrid d. i-Amidodihydrocampholytische Säure. *Sm.* 188° (*Am.* 27, 432 *C.* 1902 [2] 366).  
 34) Amid d. i- $\alpha$ -Campholytische Säure. *Sm.* 99° (*Am.* 27, 432 *C.* 1902 [2] 366).  
 35) Amid d.  $\delta^2$ -Campholytsäure. *Sm.* 90° (*Am.* 26, 290).  
 36) Amid d. Infracampholensäure. *HBr* (*Soc.* 79, 117).  
 37) Amid d. Lauronolsäure. *Sm.* 71—72°. — **I**, 708.
- $C_9H_{15}O_2N$  23) Aethylester d. 6-Amido-1,2,3,4-Tetrahydrobenzol-5-Carbonsäure. *Sm.* 74° (*A.* 317, 100).  
 24) Acetat d.  $\alpha$ -Oximido- $\beta\delta$ -Dimethyl- $\beta$ -Penten. *Sd.* 122°<sub>17</sub> (*M.* 22, 44).
- $C_9H_{15}O_2Cl$  3) Methylester d.  $\beta$ -Chlor- $\beta$ -Hepten- $\alpha$ -Carbonsäure. *Sd.* 120°<sub>17</sub> (*C.* 1901 [1] 1149).
- $C_9H_{15}O_3Br$  8)  $\alpha$ -Bromdihydro-i- $\alpha$ -Campholytsäure. *Sm.* 148° (*Am.* 26, 289).  
 $C_9H_{15}O_3N$  17) r-Egonin. *Sm.* 251° u. Zers. *HCl* (*B.* 34, 1461).  
 18) Pseudotropin-O-Carbonsäure + 3H<sub>2</sub>O. *Sm.* 201—202° u. Zers. *HCl* (*B.* 34, 1460).  
 19) Aethylester d.  $\delta$ -Keto- $\beta$ -Penten- $\beta$ -Amidoessigsäure (Acetylaceton-glykokolester). *Sm.* 68° (*B.* 34, 438).  
 20) Oxim d. Aethylesters  $C_9H_{14}O_3$ . *Sm.* 52° (*M.* 23, 860 *C.* 1902 [2] 1410).  
 21) Oxim d. isom. Aethylesters  $C_9H_{14}O_3$ . *Sm.* 52° (*M.* 23, 863 *C.* 1902 [2] 1410).
- $C_9H_{15}O_3N_3$  \*4) 4-Semicarbazon-1,1-Dimethyl-R-Pentamethylen-2-Carbonsäure. *Zers.* bei 215° (*Soc.* 79, 783).  
 9) Semicarbazon d. Säure  $C_9H_{15}O_3$ . *Sm.* 210°. *Ag* (*A.* 315, 287).
- $C_9H_{15}O_4N$  11) 3- oder 4-Dimethylamido-R-Pentamethylen-1,2-Dicarbonsäure. *Sm.* 273°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>) (*M.* 23, 278 *C.* 1902 [1] 1323).  
 12) Dimethylester d. 1-Methyltetrahydropyrrol-2,5-Dicarbonsäure. *Sm.* 35—36° (*B.* 35, 2070 *C.* 1902 [2] 218).
- $C_9H_{15}O_4Br$  6) Diäthylester d.  $\alpha$ -Brompropan- $\alpha\beta$ -Dicarbonsäure. *Sd.* 151—153°<sub>44</sub> (*Soc.* 81, 48 *C.* 1902 [1] 411).
- $C_9H_{15}O_5N$  5)  $\alpha\gamma$ -Diacetat d.  $\alpha\gamma$ -Dioxy- $\beta$ -Oximidomethyl- $\beta$ -Methylpropan. *Sd.* 169°<sub>19</sub> (*M.* 22, 450).
- $C_9H_{16}ON_2$  13) Infracampholyharnstoff (Ureidoinfracamphen). *Sm.* 182° (*Soc.* 79, 120).  
 14) Nitril d. 3-Oxy-2,2,5,5-Tetramethyltetrahydropyrrol-3-Carbonsäure. *Sm.* 138° (*B.* 34, 2290; *A.* 322, 117 *C.* 1902 [2] 127).
- $C_9H_{16}O_2N_2$  8) 3,5-Dioximido-1-Isopropylhexahydrobenzol. *Sm.* 145° (*C.* 1901 [2] 415; *Soc.* 81, 679 *C.* 1902 [2] 115).  
 9) 3,5-Dioximido-1,1,2-Trimethylhexahydrobenzol. *Sm.* 167° (*Soc.* 79, 143).  
 10) 4,5-Dioximido-1,1,3-Trimethylhexahydrobenzol? *Sm.* 166° (*A.* 322, 363 *C.* 1902 [2] 735).
- $C_9H_{16}O_2N_4$  2) 1,3,7,9-Tetramethylpuron. *Sm.* 170° (*B.* 34, 289).  
 $C_9H_{16}O_2S$  2)  $\beta$ -Merkaptopropenisocamyläther- $\alpha$ -Carbonsäure (Thioisocamylcroton-säure). *Sm.* 96° (*B.* 34, 2659).
- $C_9H_{16}O_3N_2$  2)  $\alpha$ -Cyklogeraniolen-nitrosat. *Sm.* 102—104° (*C.* 1902 [1] 1295; *A.* 324, 102 *C.* 1902 [2] 1200).
- $C_9H_{16}O_3N_2$  2) Diäthylester d. Carboxylamidoacetyl-amidoessigsäure. *Sm.* 87° (*B.* 34, 2875).  
 3) Diäthylester d. Harnstoff- $\alpha\beta$ -Di[Methylcarbonsäure] (*D.* d. Carbamidodessigsäure). *Sm.* 144° (*B.* 34, 440).  
*C* 37,5 — H 5,5 — O 27,8 — N 29,2 — M. G. 288.
- $C_9H_{16}O_4N_6$  1) Diamid d. Carbonyldi[Amidoacetyl-amidoessigsäure] (Carbonyldi-glycylglycinamid). *Sm.* 270° (*B.* 35, 1102 *C.* 1902 [1] 910).  
*C* 43,5 — H 6,4 — O 38,7 — N 11,3 — M. G. 248.
- $C_9H_{16}O_6N_2$  1) Diurethanbenztraubensäure. *Sm.* 138—139°. K + H<sub>2</sub>O, *Ag* (*C. r.* 133, 536).
- $C_9H_{16}NCl$  \*2)  $\alpha$ -Methyltropidinhydrochlorid. 2 + PtCl<sub>5</sub> + AuCl<sub>3</sub> (*A.* 317, 338).  
 3) Chlormethylat d. Tropidin. 2 + PtCl<sub>5</sub> + AuCl<sub>3</sub> (*A.* 317, 360).  
 4) Chlormethylat d. Isotropidin. 2 + PtCl<sub>5</sub> + AuCl<sub>3</sub> (*A.* 317, 371).  
 5) Chlormethylat d. Base  $C_9H_{15}N$  (aus 6-Bromtropanbrommethylat). 2 + PtCl<sub>5</sub> + AuCl<sub>3</sub> (*A.* 317, 366).

- $C_9H_{16}NJ$  2) Jodmethylat d. Tropidin. Sm. noch nicht bei 300° (A. 317, 358).  
 3) Jodmethylat d. Isotropidin. Sm. 293° u. Zers. (A. 317, 370).
- $C_9H_{17}ON$  23) 4-Oximido-1,1,3-Trimethylhexahydrobenzol (Oxim d. Trimethylcyklohexanon). Sm. 108—109° (C. 1902 [1] 1295; A. 324, 107 C. 1902 [2] 1201).  
 24) Isooxim d. Trimethylcyklohexanon. Sm. 115—116°. HCl (A. 324, 107 C. 1902 [2] 1201).  
 25) Oxim d. Dihdropulegenon (C. 1902 [1] 1295).  
 26) Pulenonoxim. Sm. 94—95° (C. 1902 [1] 1294).  
 27) Pulenonisooxim. Sm. 96—97° (C. 1902 [1] 1294).  
 28) 3-Keto-1,2,2,5,5-Pentamethyltetrahydropyrrol. Sm. 43°; Sd. 187 bis 188°<sub>755</sub> (A. 322, 128 C. 1902 [2] 127).  
 29) Amid d. cis-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm. 140—142° (Soc. 79, 360). — \*II, 708.  
 30) Amid d. trans-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sm. 188—189° (Soc. 79, 360). — \*II, 708.  
 31) Amid d. 1,3-Dimethylhexahydrobenzol-5-Carbonsäure. Sm. 153,5 bis 154,5° (B. 35, 2690 C. 1902 [2] 591).  
 32) Amid d. r- $\alpha$ -Dihydrocampholytsäure. Sm. 103—104° (Am. 26, 289).  
 \*1)  $\zeta$ -Semicarbazonyl- $\beta$ -Methyl- $\beta$ -Hepten. Sm. 131—132° (B. 34, 595).  
 11)  $\epsilon$ -Semicarbazonyl- $\zeta$ -Methyl- $\beta$ -Hepten. Sm. 93—95° (A. 319, 113).  
 12) 2-Semicarbazonyl-1,4-Dimethylhexahydrobenzol. Sm. 176—177° (Bl. [3] 25, 199).  
 13) isom. Semicarbazondimethylhexahydrobenzol. Sm. 198° (B. 35, 3299 C. 1902 [2] 1247).  
 14) 3-Semicarbazonyl-1,1,2-Trimethyl-R-Pentamethylen. Sm. 188° (Bl. [3] 27, 76 C. 1902 [1] 586).
- $C_9H_{17}O_2N$  22) i-Amidodihydrocampholytische Säure. (2HCl, PtCl<sub>4</sub>) (Am. 27, 432 C. 1902 [2] 366).  
 22) Aethylester d. 3-Amidohexahydrobenzol-1-Carbonsäure. Sd. 123°<sub>11</sub> (A. 319, 330 C. 1902 [1] 350).  
 23) Aethylester d. 4-Amidohexahydrobenzol-1-Carbonsäure. HBr (D.R.P. 82441). — \*II, 705.
- $C_9H_{17}O_2N_3$  \*3) Methylamid d. 3-Methylamido-2-Keto-1-Methylhexahydropyridin-3-Carbonsäure (B. 35, 621 C. 1902 [1] 590).  
 4)  $\zeta$ -Semicarbazonyl- $\gamma$ -Keto- $\beta$ -Methylheptan. Sm. 201° (B. 34, 3986 C. 1902 [1] 193).
- $C_9H_{17}O_3N$  7)  $\epsilon$ -Oximido- $\beta$ -Methylhexan- $\gamma$ -Methylcarbonsäure. Sm. 93—94° (Soc. 81, 681 C. 1902 [2] 115).  
 8) Oxim d. Ketosäure  $C_9H_{16}O_3$  (aus Isothujon). Sm. 77° (A. 323, 341 C. 1902 [2] 1204).  
 9) 3-Oxy-1,2,2,5,5-Pentamethyltetrahydropyrrol-3-Carbonsäure. HCl + H<sub>2</sub>O (A. 322, 118 C. 1902 [2] 127).  
 10) Aethylester d.  $\epsilon$ -Oximido- $\beta$ -Methylpentan- $\epsilon$ -Carbonsäure. Sd. 114°<sub>13</sub> (C. r. 135, 181 C. 1902 [2] 575).  
 11) Amid d. Dioxidihydroinfracampholensäure + H<sub>2</sub>O. Sm. 110° (170° wasserfrei) (Soc. 79, 117).
- $C_9H_{17}O_3N_3$  3)  $\delta$ -Semicarbazonyl- $\beta$ -Methylpentan- $\gamma$ -Methylcarbonsäure. Sm. 188 bis 189° (A. 323, 341 C. 1902 [2] 1204).
- $C_9H_{17}O_8Br$  1)  $\zeta$ -Brom- $\beta$ -Oxy- $\beta$ -Methylheptan- $\gamma$ -Carbonsäure. Sm. 97—98° (B. 34, 2196).
- $C_9H_{17}O_4N$  5) Diäthylester d. l-Glutaminsäure. Sd. 139—140°<sub>10</sub> (B. 34, 453).
- $C_9H_{17}N_3Br_2$  3) 2,3-Dibrom-1-Dimethylamido-R-Heptamethylen. Fl. (2HCl, PtCl<sub>4</sub>) (A. 317, 228).  
 4) Brommethylat d. Bromtropan. Sm. 246—247° u. Zers. (B. 34, 142).  
 5) Brommethylat d. 2-Bromtropan. Sm. 296° (A. 317, 353).  
 6) Brommethylat d. 6-Bromtropan. Sm. noch nicht bei 300° (A. 317, 364).  
 1) Jodmethylat d. 2-Jodtropan. Sm. 251—252° u. Zers. (A. 317, 357).  
 1) Bromisoamylat d. 1-Methylimidazol (B. 35, 2457 C. 1902 [2] 527).  
 \*1) Jodmethylat d. 1-Isoamylimidazol (B. 35, 2458 C. 1902 [2] 527).  
 6) 3-Oximido-1,2,2,5,5-Pentamethyltetrahydropyrrol. Sm. 104° (A. 322, 130 C. 1902 [2] 127).  
 7) Harnstoff (aus  $\epsilon$ -Amido- $\zeta$ -Methyl- $\beta$ -Hepten). Sm. 123°. (2HCl, PtCl<sub>4</sub>) (A. 319, 116).
- $C_9H_{17}NJ$   
 $C_9H_{17}N_3Br$   
 $C_9H_{17}N_3J$   
 $C_9H_{18}ON_2$

- C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>N<sub>2</sub>** 16) Amid d. Heptan- $\delta\delta$ -Dicarbonsäure. Sm. 214° (B. 35, 855 C. 1902 [1] 746).  
 17) Verbindung (aus Dimethylbrenztraubensäureäthylester). Sm. 195° (B. [3] 25, 896; B. [3] 25, 1039 C. 1902 [1] 251).
- C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>N<sub>3</sub>** 6)  $\delta$ -Nitrat d.  $\gamma$ -Oximido- $\delta$ -Oxy- $\delta$ -Aethylheptan. Sm. 92° (C. 1901 [2] 1202).  
 7) Dimethylester d. Di[Dimethylamido]malonsäure. Sm. 83—85° (B. 35, 1385 C. 1902 [1] 1090).
- C<sub>9</sub>H<sub>18</sub>NCl** 5) 2- oder 3-Chlor-1-Dimethylamido-R-Heptamethylen. Fl. + AuCl<sub>3</sub> (A. 317, 227).  
 6) 3- oder 4-Chlor-1-Dimethylamido-R-Heptamethylen. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (A. 317, 328).  
 7) cis-trans-3- oder 4-Chlor-1-Dimethylamido-R-Heptamethylen. (2HCl, PtCl<sub>4</sub>) (A. 317, 330).  
 8) 4- oder 5-Chlor-1-Dimethylamido-R-Heptamethylen. (2HCl, PtCl<sub>4</sub>) (A. 317, 320).  
 9) Chlormethylat d. Tropan. + AuCl<sub>3</sub> (B. 34, 140; A. 317, 324).
- C<sub>9</sub>H<sub>18</sub>NJ** \*3) Jodmethylat d. Tropan. Sm. noch nicht bei 300° (A. 317, 325, 358).
- C<sub>9</sub>H<sub>18</sub>N<sub>2</sub>S** 6) Amid d.  $\beta$ -Trimethylhexahydropyridin-1-Thiocarbonsäure. Sm. 171—172° (A. 319, 83).  
 7) Amid d. isom.  $\beta$ -Trimethylhexahydropyridin-1-Thiocarbonsäure. Sm. 154—155° (A. 319, 84).  
 5) 2,2,5,5-Tetramethyltetrahydropyrrol-3-Amidodithioameisensäure. Sm. 142—144° (A. 322, 106 C. 1902 [2] 126).  
 6) isom. 2, 2, 5, 5 - Tetramethyltetrahydropyrrol - 3 - Amidodithioameisensäure. Sm. 170° (A. 322, 106 C. 1902 [2] 126).
- C<sub>9</sub>H<sub>18</sub>N<sub>2</sub>S<sub>2</sub>** 25)  $\alpha$ -Oximidononan. Sm. 63° (J. pr. [2] 65, 200 C. 1902 [1] 976).  
 26)  $\beta$ -Oximidononan. Sd. 108—109° (C. 1901 [1] 525; 1902 [1] 256).  
 27)  $\delta$ -Oximido- $\beta\gamma$ -Dimethylheptan. Sd. 114—116°<sub>20</sub> (A. 318, 169).  
 28)  $\gamma$ -Oximido- $\beta\beta\epsilon$ -Trimethylhexan. Sm. 66—70° (A. 318, 169).  
 29) 4-Dimethylamido-1-Oxy-R-Heptamethylen. Sd. 251° (B. 34, 138).  
 30) 4-[ $\beta$ -Oxyäthyl]-3-Aethylhexahydropyridin. (HCl, AuCl<sub>3</sub>) (B. 35, 1356 C. 1902 [1] 1111).  
 31) Allomerochinen. (2HCl, PtCl<sub>4</sub> + 3H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>) (M. 23, 460 C. 1902 [2] 376).  
 32) Diäthylamid d. Valeriansäure (Valyl). Sd. 210° (C. 1902 [1] 222, 493).  
 33) Diäthylamid d. Isovaleriansäure. Fl. (D.R.P. 129967 C. 1902 [1] 959).
- C<sub>9</sub>H<sub>18</sub>ON<sub>3</sub>** 1) Semicarbazon d. Aldehyd C<sub>8</sub>H<sub>16</sub>O (aus Citronenöl). Sm. 72° (B. 34, 2810).
- C<sub>9</sub>H<sub>18</sub>O<sub>2</sub>N** 7) Amidosäure (aus d. Isooxim d. Trimethylcyklohexanon). Sm. 160—161° (A. 324, 108 C. 1902 [2] 1201).
- C<sub>9</sub>H<sub>18</sub>O<sub>3</sub>N** 2) Diäthyläther d.  $\gamma$ -Acetylamido- $\alpha\alpha$ -Dioxypropan. Fl. (B. 34, 1921).
- C<sub>9</sub>H<sub>18</sub>NS<sub>2</sub>** 2) Aethylester d. Dipropylamidodithioameisensäure. Sd. 170—172°<sub>28</sub> (B. 35, 3378 C. 1902 [2] 1363).
- C<sub>9</sub>H<sub>20</sub>ON<sub>2</sub>** \*1) s-Diisobutylharnstoff. Sm. 128° (J. pr. [2] 64, 416 C. 1902 [1] 23).
- C<sub>9</sub>H<sub>20</sub>O<sub>3</sub>S<sub>2</sub>** 10) s-dd-Di[sec. Butyl]harnstoff (C. 1901 [2] 29).
- C<sub>9</sub>H<sub>20</sub>NCl** 1) Aethylmerkaptal d. Methyltetrose. Sm. 108—109° (B. 35, 2365 C. 1902 [2] 511).  
 4) Chlormethylat d. Base C<sub>8</sub>H<sub>17</sub>N (aus  $\beta$ -Methylcyklohexanon- $\beta$ -Isooxim). 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (A. 324, 300 C. 1902 [2] 1507).
- C<sub>9</sub>H<sub>20</sub>NJ** 6) Jodmethylat d. Base C<sub>8</sub>H<sub>17</sub>N (aus  $\beta$ -Methylcyklohexanon- $\alpha$ -Isooxim). Sm. 210° (A. 324, 298 C. 1902 [2] 1507).  
 7) Jodmethylat d. Base C<sub>8</sub>H<sub>17</sub>N (aus  $\beta$ -Methylcyklohexanon- $\beta$ -Isooxim). Sm. 226—227° (A. 324, 300 C. 1902 [2] 1507).
- C<sub>9</sub>H<sub>21</sub>ON** \*3) Tripropylaminoxid (B. 34, 2500).  
 \*4)  $\delta$ -Aethylhydroxylamido- $\beta$ -Methylhexan. Sd. 191—197°<sub>750</sub>. HCl, HBr (J. pr. [2] 63, 213).  
 \*5)  $\gamma$ -Propylhydroxylamidoheptan. Sd. 185°<sub>700</sub>. HCl, HBr (J. pr. [2] 63, 229).  
 \*6)  $\beta$ -Propylhydroxylamido- $\beta$ -Methylpentan. Sd. 74—77°<sub>75</sub>. HCl (J. pr. [2] 63, 234).  
 7)  $\beta$ -Oxyäthylheptylamin. Sm. 35°. Pikrat, Pikrolonat (A. 315, 116).  
 4) Isoamylidi[ $\beta$ -Oxyäthyl]amin. Sd. 278—281°. Pikrolonat (A. 315, 136).
- C<sub>9</sub>H<sub>23</sub>O<sub>2</sub>N** 1) Tripropyloxyaminoxyhydrat (B. 34, 2501).



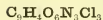
C 25,9 — H 5,5 — 38,4 — N 30,2 — M. G. 417.

- 1) Verbindung (aus Guanidincarbonat u. Glyoxylsäure) Sm. 187° (B. 35, 3607 C. 1902 [2] 1412).

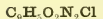
## — 9 IV —



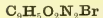
- 2) Nitril d. 2,4,5,6-Tetrachlor-3-Acetoxybenzol-1-Carbonsäure. Sm. 145—146° (B. 34, 4126 C. 1902 [1] 190).



- 1) p-Dinitro-2-[ $\beta\beta\beta$ -Trichloräthyliden]amidobenzol-1-Carbonsäure. Sm. 187° (C. 1902 [2] 939).

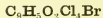


- 11) Nitril d.  $\alpha$ -Chlorformyloximido- $\alpha$ -Phenyllessigsäure. Sm. 59° (J. pr. [2] 66, 366 C. 1902 [2] 1501).

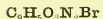


- \*11) 2-Brom-5-Nitrochinolin. Sm. 111° (J. pr. [2] 64, 91).

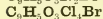
- \*12) 2-Brom-8-Nitrochinolin. Sm. 146° (J. pr. [2] 64, 91).



- 1) Acetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Brommethylbenzol. Sm. 128° (A. 320, 192 C. 1902 [1] 652).



- 2) 3-Brom-6-Nitro-2-Oxychinolin. Sm. 308—310° (J. pr. [2] 64, 90).



- 1) Acetat d. 2,3,5,6-Tetrachlor-1-Oxy-4-Keto-1-Brommethyl-1,4-Dihydrobenzol. Sm. 143—144° (A. 320, 195 C. 1902 [1] 652).

- 2) Acetat d. 2,3,5,6-Tetrachlor-1-Brom-4-Keto-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 105° (A. 320, 197 C. 1902 [1] 652).



- 2) 2-Chlor-6-Bromchinolin. Sm. 159—160° (B. 35, 3682 C. 1902 [2] 1475).



- \*2) 4-Chlor-2-Oxychinolin. Sm. 245° (B. 34, 2716).



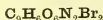
- 2) Rhodanid d. Phenylloxaminsäure (Soc. 75, 409). — \*II, 207.



- 1) Acetat d. 2,4,6-Tribrom-3-Oxy-1-Jodmethylbenzol. Sm. 119 bis 120° (B. 34, 4287 C. 1902 [1] 310). — \*II, 432.



- 2) Acetat d. 2,4,6-Tribrom-3-Oxy-1-Nitromethylbenzol (B. 34, 4287 C. 1902 [1] 310). — \*II, 431.



- 1)  $\alpha\beta$ -Dibrom- $\beta$ -[2,4-Dinitrophenyl]propionsäure. Sm. 212° (M. 23, 537 C. 1902 [2] 743).



- 1) 6-Brom-2-Merkaptochinolin. Sm. 252° (B. 35, 3682 C. 1902 [2] 1475).



- 1) 2,4,6-Trichlorphenylchlorimid d. Propionsäure. Sm. 80° (Soc. 81, 643 C. 1902 [1] 1052).



- 1) 2,4,6-Tribromphenylbromamid d. Propionsäure. Sm. 82° (Soc. 81, 820 C. 1902 [1] 1327).



- 1) 2-Thiocarbonyl-4-Keto-3-Phenyltetrahydrothiazol. Sm. 188° (B. 35, 3387 C. 1902 [2] 1364).

- 2) 2-Thiocarbonyl-4-Keto-5-Phenyltetrahydrothiazol. Sm. 178 bis 179° (C. 1902 [2] 578).



- 2) 3-Chlor-2-Acetyldiazol. Sm. 67° (B. 34, 797).

- 3) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[2-Chlorphenyl]essig-O-Methyläthersäure. Sm. 37° (J. pr. [2] 66, 380 C. 1902 [2] 1503).

- 4) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[2-Chlorphenyl]essig-N-Methyläthersäure. Sm. 89° (J. pr. [2] 66, 379 C. 1902 [2] 1503).

- 5) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essig-O-Methyläthersäure. Sm. 68—69° (J. pr. [2] 66, 375 C. 1902 [2] 1502).

- 6) Nitril d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]essig-N-Methyläthersäure. Sm. 120° (J. pr. [2] 66, 375 C. 1902 [2] 1502).



- 5) 2,4-Diketo-5-Phenyltetrahydrothiazol. Sm. 125—126° (Am. 26, 352).

- 6) Phenylester d. Rhodanessigsäure. Sm. 31—32° (Am. 26, 200).



- 1) 2,4-Diketo-1-[3-Chlorphenyl]tetrahydroimidazol. Sm. 166 bis 167° (J. pr. [2] 66, 261 C. 1902 [2] 1126).

- 2) 2,4-Diketo-1-[4-Chlorphenyl]tetrahydroimidazol. Sm. 230° (J. pr. [2] 66, 260 C. 1902 [2] 1126).



- 3) 2,4-Diketo-1-[4-Bromphenyl]tetrahydroimidazol. Sm. 233—234° (J. pr. [2] 66, 254 C. 1902 [2] 1125).

- 4) p-Brom-2-Cyanmethyamidobenzol-1-Carbonsäure. Sm. 210 bis 212° (J. pr. [2] 63, 403).



- 2) Acetat d. 3,5-Dibrom-2-Oxy-1-Jodmethylbenzol. Sm. 116—117° (B. 34, 4286 C. 1902 [1] 311). — \*II, 425.



- 4) Nitril d. 5-Chlor-6-Nitro-2-Oxybenzyläthyläther-1-Carbonsäure? Sm. 112° (R. 20, 109).

- $C_6H_7O_4NBr_2$  5) Acetat d. 3,5-Dibrom-2-Oxy-1-Nitromethylbenzol. Sm. 132 bis 133° (*B.* 34, 4286 *C.* 1902 [1] 310). — \*II, 426.
- $C_6H_7O_5ClBr$  1) Aethylester d. 6-Chlor-2-Brom-3,4,5-Trioxybenzol-1-Carbonsäure +  $1\frac{1}{2}H_2O$ . Sm. 134—135° (wasserfrei) (*G.* 31 [2] 360 *C.* 1902 [1] 39; *G.* 32 [1] 569 *C.* 1902 [2] 639).
- $C_6H_7O_6N_3Cl$  1) Aethylester d. 2-Chlor-3,5-Dinitrobenzol-1-Carbonsäure. Sm. 54° (*M.* 22, 388; *G.* 32 [1] 574 *C.* 1902 [2] 583).
- $C_6H_8ONCl_3$  9) 2,4-Dichlorphenylchloramid d. Propionsäure. Sm. 64° (*Soc.* 81, 642 *C.* 1902 [1] 1052).
- 10) 2,4,6-Trichlorphenylamid d. Propionsäure. Sm. 161° (*Soc.* 81, 643 *C.* 1902 [1] 1052).
- 11) 2,4,6-Trichlor-3-Methylphenylamid d. Essigsäure (*Soc.* 81, 1335 *C.* 1902 [2] 1179).
- 12) 2,3,6-Trichlor-4-Methylphenylamid d. Essigsäure. Sm. 179° (*Soc.* 81, 1337 *C.* 1902 [2] 1180).
- $C_6H_8ONBr$  6) Amid d.  $\beta$ -Brom- $\beta$ -Phenylakrylsäure. Sm. 119° (*Soc.* 79, 1308 *C.* 1902 [1] 195).
- $C_6H_8ONBr_3$  7) 2,4-Dibromphenylbromamid d. Propionsäure. Sm. 87° (*Soc.* 81, 819 *C.* 1902 [1] 1327).
- 8) 2,4,6-Tribromphenylamid d. Propionsäure. Sm. 203° (*Soc.* 81, 819 *C.* 1902 [1] 1327).
- $C_6H_8ON_2S$  \*1) 2-Phenylimido-4-Ketotetrahydrothiazol. Sm. 203° u. Zers. (178°) (*Am.* 28, 143 *C.* 1902 [2] 793; *J. pr.* [2] 66, 178 *C.* 1902 [2] 932).
- \*6) Phenylamid d. Rhodanessigsäure. Sm. 86—88° (91°) (*Am.* 28, 138 *C.* 1902 [2] 793; *J. pr.* [2] 66, 179 *C.* 1902 [2] 932).
- 7) 2-Imido-4-Keto-3-Phenyltetrahydrothiazol. Sm. 148°. HCl, Pikrat (*Am.* 28, 141 *C.* 1902 [2] 793).
- $C_6H_8ON_2S_2$  2) Methyläther d. 5-Merkapto-2-Keto-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 40—41° (*B.* 34, 314).
- 3) s-Di[2-Thiänyl]harnstoff. Sm. 224° (*J. pr.* [2] 65, 17 *C.* 1902 [1] 459).
- $C_6H_8O_2N_3Cl_3$  1) Methyläther d.  $\alpha$ -Isonitro- $\alpha$ -[2,4,6-Trichlorphenyl]azoäthan. Sm. 89—90° (*B.* 35, 88 *C.* 1902 [1] 404).
- $C_6H_8O_3NCl$  8) 4-Chlor-2-Acetylamidobenzol-1-Carbonsäure. Sm. 214° (*M.* 22, 485).
- 9) 6-Chlor-2-Acetylamidobenzol-1-Carbonsäure. Sm. 215° (*M.* 22, 487).
- 10) 2-Chlor-3-Acetylamidobenzol-1-Carbonsäure. Sm. 207—207,5° (*B.* 35, 3706 *C.* 1902 [2] 1448).
- 11) 4-Chlor-3-Acetylamidobenzol-1-Carbonsäure. Sm. 264,5—265,5° (*B.* 35, 3708 *C.* 1902 [2] 1449).
- 12) 6-Chlor-3-Acetylamidobenzol-1-Carbonsäure. Sm. 215—215,5° (*B.* 35, 3703 *C.* 1902 [2] 1448).
- 13) 3-Chlorid d. Pyridin-2,3-Dicarbonsäure-2-Aethylester. Sm. 163° (*M.* 22, 582).
- $C_6H_8O_3ClBr$  1) Aethylester d. 6-Chlor-2-Brom-3-Oxybenzol-1-Carbonsäure. Sm. 101—102° (*G.* 31 [2] 364 *C.* 1902 [1] 38).
- 2) Aethylester d. 2-Chlor-6-Brom-3-Oxybenzol-1-Carbonsäure. Fl. (*G.* 31 [2] 367 *C.* 1902 [1] 38).
- $C_6H_8O_4NBr$  13) Acetat d. 5-Brom-3-Nitro-4-Oxy-1-Methylbenzol. Sm. 110—111° (*B.* 35, 459 *C.* 1902 [1] 646).
- $C_6H_8O_4Br_2S_2$  1) Cyklo-o-Xylylendisulfondibrommethan. Sm. 250° u. Zers. (*B.* 35, 1393 *C.* 1902 [1] 1096).
- $C_6H_8ONCl_3$  12) 2-Dichlor-2-Methylphenylamid d. Essigsäure. Sm. 154° (*G.* 32, [2] 20 *C.* 1902 [2] 893).
- 13) 2,4-Dichlor-3-Methylphenylamid d. Essigsäure. Sm. 120—122° (*Soc.* 81, 1331 *C.* 1902 [2] 1179).
- 14) 5,6-Dichlor-3-Methylphenylamid d. Essigsäure. Sm. 158—159° (*Soc.* 81, 1338 *C.* 1902 [2] 1180).
- 15) 2,3-Dichlor-4-Methylphenylamid d. Essigsäure. Sm. 128—129° (*Soc.* 81, 1328 *C.* 1902 [2] 1179).
- 16) 2,6-Dichlor-4-Methylphenylamid d. Essigsäure. Sm. 199° (*Soc.* 81, 1337 *C.* 1902 [2] 1180).
- 17) 2,4-Dichlorphenylamid d. Propionsäure. Sm. 121° (*Soc.* 81, 642 *C.* 1902 [1] 1052).



- $C_6H_5ONCl_2$  18) 2-Chlorphenylehloramid d. Propionsäure. Sm. 57° (*Soc.* 81, 641 *C.* 1902 [1] 1052).
- 19) 4-Chlorphenylehloramid d. Propionsäure. Sm. 55° (*Soc.* 81, 640 *C.* 1902 [1] 1052).
- $C_6H_5ONBr_2$  \*4) 4,6-Dibrom-3-Methylphenylamid d. Essigsäure. Sm. 167° (*Soc.* 81, 873 *C.* 1902 [2] 32).
- 10) 2-Brom-2-Methylphenylamid d. Essigsäure. Sm. 199° (*G.* 32, [2] 20 *C.* 1902 [2] 893).
- 11) 2-Bromphenylbromamid d. Propionsäure. Sm. 117° (*Soc.* 81, 818 *C.* 1902 [1] 1327).
- 12) 4-Bromphenylbromamid d. Propionsäure. Sm. 78° (*Soc.* 81, 817 *C.* 1902 [1] 1327).
- 13) 2,4-Dibromphenylamid d. Propionsäure. Sm. 136° (*Soc.* 81, 819 *C.* 1902 [1] 1327).
- $C_6H_5ONS_2$  1) Methylester d. Benzoylamidodithioameisensäure. Sm. 135° (*C.* 1901 [2] 275).
- $C_6H_5ON_3S$  \*1) 3-Merkapto-5-Keto-4-Phenyl-1-Methyl-4,5-Dihydro-1,2,4-Triazol. Sm. 163° (*B.* 35, 975 *C.* 1902 [1] 880).
- \*2) 5-Thiocarbonyl-3-Keto-4-Phenyl-1-Methyltetrahydro-1,2,4-Triazol. Sm. 212° (*B.* 35, 975 *C.* 1902 [1] 880).
- $C_6H_5OClBr_2$  2) 3,6-Dibrom-5-Oxy-1-Chlormethyl-2,4-Dimethylbenzol. Sm. 99 bis 100° (*B.* 35, 146 *C.* 1902 [1] 468).
- $C_6H_5OBr_2J$  2) 3,6-Dibrom-5-Oxy-1,2-Dimethyl-4-Jodmethylbenzol. Sm. 124° (*B.* 35, 798 *C.* 1902 [1] 725).
- 3) 3,6-Dibrom-5-Oxy-1-Jodmethyl-2,4-Dimethylbenzol. Sm. 153 bis 154° (*B.* 35, 145 *C.* 1902 [1] 467).
- $C_6H_5O_2NCl_2$  2) Methyläther d. 3,4-Dichlor-2-Acetylamido-1-Oxybenzol. Sm. 191—192° (*Soc.* 81, 998 *C.* 1902 [2] 698).
- $C_6H_5O_2NS$  6) Amid d. Benzoylmerkaptoessigsäure. Sm. 119—120° (*C.* 1901 [2] 276).
- $C_6H_5O_2N_2Cl$  7) 5-Chlor-2,4-Di[Formylamido]-1-Methylbenzol. Sm. 166° (*Soc.* 81, 95 *C.* 1902 [1] 186).
- 8) Aethylester d. Diazobenzolechlorid-2-Carbonsäure (*J. pr.* [2] 64, 74).
- $C_6H_5O_2N_3Cl_2$  1) Methyläther d.  $\alpha$ -Isonitro- $\alpha$ -[2,4-Dichlorphenyl]azoäthan. Sm. 110—111° (*B.* 35, 84 *C.* 1902 [1] 404).
- $C_6H_5O_2N_3S$  1) Methylenäther d. 3,4-Dioxy-1-Thiosemicarbazonomethylbenzol. Sm. 185°. *Ag.* (*B.* 35, 2053 *C.* 1902 [2] 105).
- $C_6H_5O_2JHg$  1) Benzoat d. Quecksilber- $\beta$ -Oxyäthyljodid. Sm. 118° (*B.* 34, 1390).
- $C_6H_5O_3NBr_2$  6) stab. 4,6-Dibrom-2-Oxy-5-Nitromethyl-1,3-Dimethylbenzol. Sm. 127—128° (*B.* 34, 4273 *Aum.* *C.* 1902 [1] 308). — \*II, 457.
- 7) lab. 3,6-Dibrom-5-Oxy-2-Nitromethyl-1,4-Dimethylbenzol. Sm. 110° (*B.* 34, 4271 *C.* 1902 [1] 308). — \*II, 453.
- 8) stab. 3,6-Dibrom-5-Oxy-2-Nitromethyl-1,4-Dimethylbenzol. Sm. 135° u. Zers. (*B.* 34, 4269 *C.* 1902 [1] 307). — \*II, 452.
- $C_6H_5O_3N_2Cl$  11) Acetylderivat d. 3-Chlor-*p*-Nitro-*p*-Amido-1-Methylbenzol. Sm. 262° (*B.* 33, 2507). — \*II, 285.
- $C_6H_5O_4BrS_3$  1) O-Aethylester d. 4-Bromphenylxanthogensäure-2-Sulfonsäure. — \*II, 493.
- $C_6H_5O_7NS$  \*1) 1-Aethylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Ba + 4H<sub>2</sub>O (*Am.* 25, 9).
- 2) Benzol-1-Carbonsäure-2-Amidoessigsäure-4-Sulfonsäure. K + 2H<sub>2</sub>O (*B.* 34, 1862).
- 3) Benzol-1-Carbonsäure-2-Amidoessigsäure-5-Sulfonsäure. Na + 3(4)H<sub>2</sub>O, K (*B.* 34, 1862).
- $C_6H_{10}ONCl$  \*8) Benzimido- $\beta$ -Chloräthyläther. HCl (*B.* 35, 166 *C.* 1902 [1] 420).
- \*10)  $\beta$ -Chloräthylamid d. Benzolcarbonsäure. Sm. 102—103° (*B.* 35, 166 *C.* 1902 [1] 420).
- \*13) 3-Chlor-2-Methylphenylamid d. Essigsäure. Sm. 157° (*M.* 22, 482).
- \*17) 2-Chlor-3-Methylphenylamid d. Essigsäure. Sm. 133—134° (*B.* 35, 3705 *C.* 1902 [2] 1448; *B.* 35, 3718 *C.* 1902 [2] 1449).
- \*18) 6-Chlor-3-Methylphenylamid d. Essigsäure. Sm. 93—94° (*B.* 35, 3717 *Aum.* *C.* 1902 [2] 1449).

- $C_6H_{10}ONCl$  \*20) 4-Chlor-3-Methylphenylamid d. Essigsäure. Sm. 91,2—91,7° (*B.* 35, 3702 *C.* 1902 [2] 1448).
- \*21) 2-Chlor-4-Methylphenylamid d. Essigsäure. Sm. 113° (*Soc.* 81, 1337 *C.* 1902 [2] 1179).
- \*40) Methylphenylamid d. Chloressigsäure. Sm. 61° (48°) (*Am.* 27 6 *C.* 1902 [1] 476; *B.* 34, 2125).
- 44) 3-Methylphenylamid d. Chloressigsäure. Sm. 141° (*Am.* 27, 7 *C.* 1902 [1] 476).
- 45) Phenylchloramid d. Propionsäure. Sm. 77° (*Soc.* 81, 639 *C.* 1902 [1] 1052).
- 46) 2-Chlorphenylamid d. Propionsäure. Sm. 91° (*Soc.* 81, 641 *C.* 1902 [1] 1052).
- 47) 4-Chlorphenylamid d. Propionsäure. Sm. 141° (*Soc.* 81, 639 *C.* 1902 [1] 1052).
- $C_6H_{10}ONBr$  48) Methyl-4-Chlorphenylamid d. Essigsäure. Sm. 92° (*Soc.* 79, 465).
- \*10) Phenylamid d.  $\alpha$ -Brompropionsäure. Sd. 186°<sub>10</sub> (*B.* 34, 1839).
- \*12) 4-Brom-2-Methylphenylamid d. Essigsäure. Sm. 156—157° (*G.* 32 [2] 20 *C.* 1902 [2] 893).
- 21) Aethyläther d.  $\alpha$ -Brom- $\alpha$ -Phenylimido- $\alpha$ -Oxymethan. Fl. (*Am.* 17, 101). — \*II, 169.
- 22) Methylphenylamid d. Bromessigsäure. Sm. 69° (*B.* 34, 2125).
- 23) Phenylbromamid d. Propionsäure. Sm. 88° (*Soc.* 81, 816 *C.* 1902 [1] 1327).
- 24) 2-Bromphenylamid d. Propionsäure. Sm. 93° (*Soc.* 81, 818 *C.* 1902 [1] 1327).
- 25) 4-Bromphenylamid d. Propionsäure. Sm. 149° (*Soc.* 81, 817 *C.* 1902 [1] 1327).
- $C_6H_{10}ON_2S$  5) Methyläther d. Benzoylimidoamidomerkaptomethan (Benzoylpseudomethylthioharnstoff). Sm. 111—112° (*C.* 1901 [2] 275).
- $C_6H_{10}ON_2S_2$  1) Phenylamidoformylmethylester d. Amidodithioameisensäure. Sm. 162° u. Zers. (*Am.* 28, 140 *C.* 1902 [2] 793).
- $C_6H_{10}ON_3Cl$  3) Methyläther d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]azoäthan. Sm. 75,5—76° (*B.* 35, 754 *C.* 1902 [1] 719).
- $C_6H_{10}O_2NCl$  12) Methyläther d. 3-Chlor-2-Acetylamido-1-Oxybenzol. Sm. 147 bis 148° (*Soc.* 81, 996 *C.* 1902 [2] 697).
- 13) Methylester d. 2-Chlormethylamidobenzol-1-Carbonsäure (*C.* 1902 [1] 809).
- 14) Methylester d. 4-Chlormethylamidobenzol-1-Carbonsäure (*C.* 1902 [2] 955).
- $C_6H_{10}O_2N_2S$  \*2) o-Phenylthiohydantoinsäure. Sm. 185—190° u. Zers. (*Am.* 28, 140 *C.* 1902 [2] 793).
- 6) Methylester d.  $\alpha$ -Phenylthioharnstoff- $\beta$ -Carbonsäure. Sm. 158° (*Soc.* 79, 908).
- 7) S-Amid d. 2-Carboxyphenylamidothioessigsäure. Sm. 190° u. Zers. (*C.* 1901 [1] 978).
- $C_6H_{10}O_2N_3Cl$  4) Methyläther d.  $\alpha$ -Isonitroso- $\alpha$ -[4-Chlorphenyl]azoäthan. Sm. 112—112,5° (*B.* 35, 81 *C.* 1902 [1] 403).
- $C_6H_{10}O_4NJ$  1) Jodmethylat d. Pyridin-3,4-Dicarbonsäure-3-Methylester. Sm. 188° (*M.* 23, 258 *C.* 1902 [1] 1368).
- 2) Jodmethylat d. Pyridin-3,4-Dicarbonsäure-4-Methylester. Sm. 223—224° (*M.* 23, 258 *C.* 1902 [1] 1368).
- $C_6H_{10}O_6N_2S$  1) 2- oder 4-Amido-1-Methylbenzol-5-Sulfonsäure-2- oder 4-Oxaminsäure (*C.* 1901 [2] 70).
- 2) 2- oder 6-Amido-1-Methylbenzol-4-Sulfonsäure-2- oder 6-Oxaminsäure (*C.* 1901 [2] 70).
- $C_6H_{11}ONS$  18) Amid d. 4-Oxybenzoläthyläther-1-Thiocarbonsäure. Sm. 158° (*Am.* 26, 360).
- 19) Phenylamid d.  $\alpha$ -Merkaptopropionsäure. Sm. 91° (*J. pr.* [2] 66, 190 *C.* 1902 [2] 933).
- $C_6H_{11}ON_3S$  3)  $\beta$ -Benzoylamido- $\alpha$ -Methylthioharnstoff. Sm. 198° (*Soc.* 79, 667).
- $C_6H_{11}ON_3Cl_3$  1)  $\alpha$ -Chloralamido- $\alpha$ -Phenylguanidin.  $HNO_3$  (*G.* 31 [1] 522).
- $C_6H_{11}O_2NS$  9) Phenylamid d. Propen- $\alpha$ -Sulfonsäure. Sm. 91° (*B.* 34, 3477).
- 10) Methylphenylamid d. Aethensulfonsäure. Sm. 79° (*B.* 34, 3476).

- $C_9H_{11}O_2N_3Cl$  1) Methyläther d. 4-Chlor-2-Acetylamido-5-Amido-1-Oxybenzol. Sm. 145° (D.R.P. 131963 C. 1902 [2] 84).
- $C_9H_{11}O_2N_3S$  3) Methylenäther d. 3,4-Dioxy-1-Thiosemicarbazonmethylbenzol (Vanillinthiosemicarbazon). Sm. 196—197° (B. 35, 2604 C. 1902 [2] 572).
- 4) Methylester d.  $\alpha$ -Phenylamidothioharnstoff- $\beta$ -Carbonsäure. Sm. 180° (Soc. 79, 911).
- $C_9H_{11}O_4NS$  17) 2-Acetylamido-1-Methylbenzol- $\beta$ -Sulfonsäure (B. 33, 1366). — \*II, 324.
- 18) 4-Acetylamido-1-Methylbenzol- $\beta$ -Sulfonsäure (B. 33, 1366). — \*II, 325.
- $C_9H_{11}O_5NS$  8) 2-Methylphenylamidoessigsäure-4-Sulfonsäure (B. 34, 1861).
- 9) 2-Methylphenylamidoessigsäure-5-Sulfonsäure.  $Na + 5H_2O$ ,  $K + H_2O$  (B. 34, 1861).
- 10) Aethylschwefelsäurederivat d. 2-Oxybenzol-Carbonsäureamid. Sm. 130° (D.R.P. 75456). — \*II, 892.
- $C_9H_{11}O_6NS_2$  3)  $\beta$ -(4-Methylphenyl)imidoäthan- $\alpha$ -Disulfonsäure.  $K_2 + 2H_2O$  (Bl. [3] 27, 10 C. 1902 [1] 405).
- $C_9H_{12}ONCl$  2) Chlormethylat d. 4-Propionylpyridin.  $2 + PtCl_4 + AuCl_3$  (B. 34, 4252 C. 1902 [1] 210).
- $C_9H_{12}ONAs$  1) 3-Dimethylamido-4-Methylphenylarsenoxyd. Sm. 55° (A. 320, 318 C. 1902 [1] 921).
- $C_9H_{12}ON_3S$  \*3) Aethyläther d. 4-Oxyphenylthioharnstoff. Sm. 172° (J. pr. [2] 65, 379 C. 1902 [1] 1329).
- $C_9H_{12}ON_3Cl$  1) Methyläther d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]hydrazidoäthan. HCl (B. 35, 753 C. 1902 [1] 719).
- $C_9H_{12}O_2NCl$  2) Acetat d. Pyridin- $\beta$ -Oxychloräthylat.  $2 + PtCl_4 + AuCl_3$  (Ar. 240, 78 C. 1902 [1] 477).
- $C_9H_{12}O_3Br_2S_3$  1) Verbindung (aus d. Verb.  $C_9H_3Br_3S_3$ ). Sm. 125—126° (B. 34, 214).
- $C_9H_{12}NCl_3As$  3) 3-Dimethylamido-4-Methylphenyldichlorarsin. HCl, HBr (A. 320, 319 C. 1902 [1] 921).
- $C_9H_{12}NSAs$  1) 3-Dimethylamido-4-Methylphenylarsensulfid. Sm. 65—67° (A. 320, 320 C. 1902 [1] 921).
- $C_9H_{13}O_2NS$  20) Phenylamid d. Propan- $\alpha$ -Sulfonsäure. Sm. —10° (R. 21, 79 C. 1902 [1] 855).
- $C_9H_{13}O_3NS$  13) 2-Dimethylamido-1-Methylbenzol-4-Sulfonsäure (C. 1902 [2] 377).
- $C_9H_{13}O_3ClSi$  1) Methyläthylphenyläther d. Trioxysiliciumchlorid. Sd. 241° (Soc. 79, 457).
- $C_9H_{13}O_4NS$  1) Diäthylester d.  $\alpha$ -Rhodanäthan- $\alpha$ -Dicarbonsäure. Sd. 139 bis 142° (C. 1902 [2] 578).
- $C_9H_{13}NJ_2Hg$  1) Trimethyl-4-Jodquecksilberphenylammoniumjodid. Sm. 139 bis 140° (B. 35, 2044 C. 1902 [2] 115).
- $C_9H_{14}O_3NP$  1) Mono-4-Methylphenylamid d. Phosphorsäuremonoäthylester. Ba (Soc. 81, 1372 C. 1902 [2] 1198).
- $C_9H_{14}O_3NAs$  1) 3-Dimethylamido-4-Methylphenylarsinsäure. Sm. 245° (A. 320, 325 C. 1902 [1] 922).
- $C_9H_{15}ONBr_2$  3) 2,3-Dibrom-4-[ $\alpha$ -Oximidoäthyl]-1-Methylhexahydrobenzol. Sm. 130° (150° u. Zers.) (C. 1902 [1] 1294; A. 324, 90 C. 1902 [2] 1201).
- 4) Oximbromid d. Keton  $C_9H_{14}O$ . Sm. 132—133° (C. r. 135, 583 C. 1902 [2] 1257).
- 5) Amid d. Dibromdihydroinfracampholensäure  $+ H_2O$ . Sm. 114° (Soc. 79, 118).
- $C_9H_{15}O_2N_3P$  1) Amid-4-Methylphenylamid d. Phosphorsäureäthylester. Sm. 125° (Soc. 81, 1372 C. 1902 [2] 1198).
- $C_9H_{15}N_3ClS$  1)  $\beta$ -Chlorallylamid d. Hexahydropyridin-1-Thiocarbonsäure ( $\beta$ -Chlorallylpiperidylthioharnstoff). Sm. 146,5—147,5° (Soc. 79, 559).
- $C_9H_{16}ONCl$  4)  $\alpha$ -Cyklogeraniolennitrosochlorid. Sm. 100—120° (C. 1902 [1] 1295; A. 324, 102 C. 1902 [2] 1200).
- 5) Pulenennitrosochlorid. Sm. 88—89° (C. 1902 [1] 1294).
- 6) Pulegennitrosochlorid (C. 1902 [1] 1295).
- $C_9H_{16}ON_3Br$  1)  $\gamma$ -Brom- $\gamma$ -Semicarbazon- $\beta$ -Methyl- $\beta$ -Hepten. Sm. 184° (A. 319, 92).
- $C_9H_{17}ONBr_2$  2) Brommethylat d. Bromoxypseudotropin. Sm. 237—238° u. Zers. (B. 34, 143).

- $C_9H_{17}OJHg$  1) Verbindung (aus  $\zeta$ -Oxy- $\beta$ - $\zeta$ -Dimethyl- $\beta$ -Hepten). Fl. (B. 35, 3185 C. 1902 [2] 1204).
- $C_9H_{17}NCIBr$  1) Chlormethylat d. 2-Bromtropan. 2  $\frac{1}{2}$   $PtCl_4$  (A. 317, 356).  
2) Chlormethylat d. 6-Bromtropan. 2  $\frac{1}{2}$   $PtCl_4$  (A. 317, 365).
- $C_9H_{17}NBrJ$  2) Jodmethylat d. 2-Bromtropan. Sm. 262° (A. 317, 356).
- $C_9H_{18}ONCl$  5)  $\delta$ -Chlor- $\gamma$ -Oximido- $\delta$ -Aethylheptan. Sm. 81—83° (C. 1901 [2] 1202).
- $C_9H_{18}ONBr$  2) Diäthylamid d.  $\alpha$ -Bromisovaleriansäure. Sd. 130—135°<sub>20</sub> (D.R.P. 129967 C. 1902 [1] 959).
- $C_9H_{18}ON_3S$  1) Aethyläther d. Acetylimidodiäthylamidomerkaptomethan (Acetylidiäthylthioläthylpseudothioharnstoff). Sd. 162—164°<sub>21</sub> (Am. 26, 413).
- $C_9H_{18}O_4N_3S_2$  1) Verbindung (aus Glykokollester u.  $CS_2$ ). Sm. 79° (B. 34, 441).
- $C_9H_{19}O_3JHg$  1) Verbindung (aus  $\zeta$ -Oxy- $\beta$ - $\zeta$ -Dimethyl- $\beta$ -Hepten). Sm. 124—125° (B. 35, 3185 C. 1902 [2] 1204).
- $C_9H_{20}O_2NJ$  1) Triäthylamidoessigsäuremethylesterjodid. Sm. 138—139° u. Zers. (A. 318, 104).
- $C_9H_{21}O_3NS$  1) Anhydrid d. Tripropyloxysulfaminsäure. Sm. 159° (B. 34, 2502).
- $C_9H_{24}ON_3J$  1) 3-Dimethylamido-9-Diäthylamido-4-Methylphenoxazoniumjodid (C. 1902 [2] 378).

## — 9 V —

- $C_9H_9ONClJ$  1) 5-Chlor- $p$ -Jod-8-Oxychinolin. Sm. 177—178° (C. 1901 [1] 429).
- $C_9H_7ONClBr_3$  1) 2,4,6-Tribromphenylethloramid d. Propionsäure. Sm. 75° (Soc. 81, 820 C. 1902 [1] 1327).
- $C_9H_7ONCl_3Br$  1) 2,4,6-Trichlorphenylbromamid d. Propionsäure. Sm. 106° (Soc. 81, 644 C. 1902 [1] 1053).
- $C_9H_7ONClBr_2$  1) 2,4-Dibromphenylethloramid d. Propionsäure. Sm. 71° (Soc. 81, 819 C. 1902 [1] 1327).
- $C_9H_7ONCl_2Br$  1) 2,4-Dichlorphenylbromamid d. Propionsäure. Sm. 66° (Soc. 81, 643 C. 1902 [1] 1052).
- $C_9H_7ONClBr$  1) 2-Chlorphenylbromamid d. Propionsäure. Sm. 106° (Soc. 81, 641 C. 1902 [1] 1052).  
2) 4-Chlorphenylbromamid d. Propionsäure. Sm. 71° (Soc. 81, 640 C. 1902 [1] 1052).  
3) 2-Bromphenylethloramid d. Propionsäure. Sm. 59° (Soc. 81, 818 C. 1902 [1] 1327).  
4) 4-Bromphenylethloramid d. Propionsäure. Sm. 59° (Soc. 81, 817 C. 1902 [1] 1327).
- $C_9H_{12}O_2NCIS$  2) Methyl- $\beta$ -Chloräthylamid d. Benzolsulfonsäure. Sm. 65—66° (B. 34, 3554).
- $C_9H_{13}O_3NCIP$  1) 4-Methylphenylamid d. Phosphorsäuremonoäthylesterchlorid. Sm. 74° (C. 1901 [1] 687; Soc. 81, 1372 C. 1902 [2] 1198).

**C<sub>10</sub>-Gruppe.**

- $C_{10}H_8$  \*1) Naphtalin (D.R.P. 125936 C. 1902 [1] 77; B. 35, 384 C. 1902 [1] 589).
- $C_{10}H_{10}$  \*1) 1,4-Dihydronaphtalin (G. 31 [1] 5).  
9)  $\alpha$ -Phenyl- $\alpha$ - $\gamma$ -Butadien. Sm. 4,5°; Sd. 94—96°<sub>18</sub> (B. 33, 2401; B. 35, 2650 C. 1902 [2] 588; B. 35, 2696 C. 1902 [2] 588). — \*II, 93.  
10) isom.  $\alpha$ -Phenyl- $\alpha$ - $\gamma$ -Butadien? Sm. 25°; Sd. 120—122°<sub>10</sub> (B. 35, 2137 C. 1902 [2] 187; B. 35, 2649 C. 1902 [2] 587; B. 35, 2697 C. 1902 [2] 588).  
11)  $p$ -Methylinden (Gemisch). Sd. 200—210° (B. 35, 1762 C. 1902 [2] 55).  
12) polym.  $p$ -Methylinden (B. 35, 1762 C. 1902 [2] 55).
- $C_{10}H_{12}$  \*3)  $\alpha$ -Phenyl- $\beta$ -Methylpropen. Sd. 183—185°<sub>748</sub> (C. 1901 [2] 624).  
\*8) 1,2,3,4-Tetrahydronaphtalin. Sd. 205° (G. 31 [1] 5; C. 1901 [2] 202).  
\*9)  $\alpha$ -Tetrahydronaphtalin. Sd. 204—205° (C. 1902 [2] 1119).  
11)  $\beta$ -Phenyl- $\beta$ -Buten. Sd. 191—193° (B. 35, 2641 C. 1902 [2] 586; B. 35, 3507 C. 1902 [2] 1319).  
12)  $\alpha$ -[4-Methylphenyl]propen. Sd. 92—93°<sub>30</sub> (B. 35, 2254 C. 1902 [2] 274).  
13) polym.  $\alpha$ -[4-Methylphenyl]propen. Sd. 202—206°<sub>18</sub> (B. 35, 2253 C. 1902 [2] 274).

- C<sub>10</sub>H<sub>12</sub>** 14) 4-Aethylphenyläthen. Sd. 86°<sub>30</sub> (B. 35, 2250 C. 1902 [2] 273).  
 15) polym. 2,4-Dimethylphenyläthen. Fl. (B. 35, 2249 C. 1902 [2] 273).  
**C<sub>10</sub>H<sub>14</sub>** \*2) Isobutylbenzol. Sd. 171—173°<sub>750</sub> (Bl. [3] 25, 626).  
 \*9) 4-Isopropyl-1-Methylbenzol (J. pr. [2] 66, 50 C. 1902 [2] 520).  
 \*22) 1,2,4,5-Tetramethylbenzol (B. 35, 869 C. 1902 [1] 804).  
 30) 2-Isopropyl-1-Methylbenzol. Sd. 157° (B. 34, 1951).  
 31) Kohlenwasserstoff (aus Phellandrenolglykuronsäure). Sd. 175° (H. 33, 591).  
 32) Kohlenwasserstoff (aus Pinenolglykuronsäure). Sd. 175—176° (H. 33, 591).  
**C<sub>10</sub>H<sub>16</sub>** \*7) 1-Camphen (C. 1902 [2] 592; B. 35, 1019 C. 1902 [1] 933; Soc. 81, 316 C. 1902 [1] 969).  
 \*11) Carvestren (B. 34, 717).  
 \*20) Fenchon (J. pr. [2] 65, 586 C. 1902 [2] 364).  
 \*21) D-d-Fenchon (A. 315, 280).  
 \*22) D-l-Fenchon (A. 315, 280).  
 \*26) d-Limonen (C. r. 134, 1130 C. 1902 [2] 17; Soc. 81, 315 C. 1902 [1] 969).  
 \*27) l-Limonen (Soc. 81, 315 C. 1902 [1] 969).  
 \*28) Myrcen. Sd. 171—172° (B. 34, 3126; Bl. [3] 25, 689; B. 35, 3264 C. 1902 [2] 1259).  
 \*30) d-Phellandren (J. pr. [2] 66, 49 C. 1902 [2] 520).  
 \*33) Pinen (C. 1902 [1] 1296; Soc. 81, 61 C. 1902 [1] 120; Soc. 81, 315 C. 1902 [1] 969; J. pr. [2] 66, 49 C. 1902 [1] 520).  
 \*46) Terpinen (B. 34, 713; C. r. 134, 360 C. 1902 [1] 659).  
 \*123) Sabinen (B. 35, 2045 C. 1902 [2] 123).  
 \*124) Thujen (B. 34, 2279).  
 130) 1,2-Dimethyl-1,2,5,6-Tetrahydro-R-Okten (Dimethyleyklooctadien). Sd. 68—71°<sub>15</sub> (B. 35, 2136 C. 1902 [2] 187).  
 131) 3,5-Dimethyl-1-Aethyl-1,2-Dihydrobenzol. Sd. 166° (A. 323, 148 C. 1902 [2] 842).  
 132) isom. Camphen. Sm. 3—4°; Sd. 155—156°<sub>743</sub> (B. 34, 3254).  
 133) Ocimen. Sd. 176—178° (C. 1901 [1] 1006).  
 134) Terpen (aus d-Borneol). Sd. 160—161°<sub>770</sub> (B. 34, 3254).  
 135) Terpen (aus d-Borneol). Sd. 165—170°<sub>770</sub> (B. 34, 3254).  
 136) Terpen (aus l-Borneol). Sd. 156—157°<sub>750</sub> (B. 34, 3255).  
 137) Terpen (aus Buchöl). Sd. 175—176°<sub>759</sub> (J. pr. [2] 54, 441; [2] 63, 51).  
 138) Kohlenwasserstoff (aus Kautschuköl). Sd. 147—150°<sub>761</sub> (B. 35, 3266 C. 1902 [2] 1259).  
 139) Kohlenwasserstoff (aus Kautschuköl). Sd. 168—169° (B. 35, 3266 C. 1902 [2] 1259).  
**C<sub>10</sub>H<sub>18</sub>** \*5) Menthen. Sd. 166—168,5° (B. 34, 3253).  
 \*23) Camphan. Sm. 153—154° (A. 316, 236).  
 \*27) Kohlenwasserstoff (aus Terpentinsel). Sd. 166° (C. 1901 [2] 202).  
 34) Dihydrocamphen. Sd. 164—165° (C. 1901 [2] 202).  
 35) Dihydromyrcen. Sd. 171,5—173,5° (B. 34, 3126).  
 36) Cyklodihydromyrcen. Sd. 169—172° (B. 34, 3128).  
 37) Salven. Sd. 142—145° (B. 35, 551 C. 1902 [1] 586).  
 38) Kohlenwasserstoff (aus d-Limonen) (C. r. 134, 1130 C. 1902 [2] 17).  
**C<sub>10</sub>H<sub>20</sub>** \*2) 1-Methyl-4-Isopropylhexahydrobenzol. Sd. 169—171° (C. 1901 [1] 818; 1901 [2] 202; J. pr. [2] 64, 128).  
 \*5) α-Dekanaphten. Sd. 160—161° (Am. 25, 261, 302).  
 \*22) γγ'-Trimethyl-α-Hepten (C. 1902 [2] 886).  
 24) Kohlenwasserstoff (aus Diosphenol). Sd. 165—168°<sub>762</sub> (J. pr. [2] 63, 60).

- C<sub>10</sub>H<sub>5</sub>Br<sub>9</sub>** 1) αγγγ-Tetrabrom-α-Pentabromphenyl-β-Methylpropan. Sm. 216 bis 217° (Bl. [3] 25, 626).  
**C<sub>10</sub>H<sub>6</sub>O<sub>3</sub>** \*3) 5-Oxy-1,4-Naphtochinon. Sm. 151° u. Zers. (M. 23, 515 C. 1902 [2] 743).  
**C<sub>10</sub>H<sub>6</sub>O<sub>4</sub>** \*1) 2,3-Dioxy-1,4-Naphtochinon (M. 23, 524 C. 1902 [2] 744).  
 \*2) 5,6-Dioxy-1,4-Naphtochinon (M. 23, 518 C. 1902 [2] 744).  
 \*12) 1,4-Benzpyron-2-Carbonsäure. Sm. 252°. Ag (Soc. 79, 471; B. 35, 2889 C. 1902 [2] 1054).  
 13) 6,7-Dioxy-1,4-Naphtochinon (C. 1902 [1] 934; M. 23, 532 C. 1902 [2] 745).



- $C_{10}H_6O_4$  14) 1,2-Benzpyron-4-Carbonsäure. Sm. 179—180° (B. 34, 422).  
 $C_{10}H_6O_5$  6) 7-Oxy-1,2-Benzpyron-3-Carbonsäure +  $xH_2O$ . Sm. 262 u. Zers. (B. 34, 386).  
 7) 7-Oxy-1,2-Benzpyron-4-Carbonsäure +  $2H_2O$ . Sm. 247—248° (B. 34, 381).  
 8) Anhydrid d. Furan-2-Carbonsäure. Sm. 73°; Sd. 325° (B. 34, 2505).  
 $C_{10}H_6O_6$  9) Isopyromucylypyromucat. Sm. 99° (Bl. [3] 27, 1512 C. 1902 [2] 344).  
 3) 6,7-Dioxy-1,2-Benzpyron-3-Carbonsäure. Sm. 270° u. Zers. (B. 34, 426).  
 4) 6,7-Dioxy-1,2-Benzpyron-4-Carbonsäure +  $H_2O$ . Sm. 295° u. Zers. (wasserfrei) (B. 34, 425).  
 5) 2,3- oder 3,4-Anhydrid d. 5-Oxy-1-Methylbenzol-2,3,4-Tricarbon-säure. Sm. 220—225° u. Zers. (B. 35, 2915 C. 1902 [2] 1042).  
 $C_{10}H_6O_8$  \*3) Benzol-1,2,4,5-Tetracarbonsäure +  $2H_2O$  (Bl. [3] 25, 686).  
 $C_{10}H_6N_2$  7) Nitril d. Chinolin-2-Carbonsäure. Sm. 93° (J. pr. [2] 66, 264 C. 1902 [2] 1128).  
 8) Nitril d. Chinolin-4-Carbonsäure. Sm. 95°. (HCl,  $AuCl_3$ ) (M. 23, 904 C. 1902 [2] 1475).  
 $C_{10}H_6Cl_2$  \*6) 1,7-Dichlornaphtalin. Sm. 63—64° (A. 323, 118 C. 1902 [2] 799).  
 $C_{10}H_7Cl$  \*2) 2-Chlornaphtalin (B. 34, 1813).  
 $C_{10}H_5O$  \*1) 1-Oxynaphtalin (C. 1902 [2] 281).  
 \*2) 2-Oxynaphtalin (C. 1902 [2] 281).  
 $C_{10}H_5O_2$  \*4)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Butin. Sd. 115—117°<sub>11</sub> (Bl. [3] 25, 312).  
 \*13) 4-Methyl-1,2-Benzpyron. Sm. 81—82° (B. 34, 421).  
 28) 6-Methyl-1,4-Benzpyron. Sm. 88—89°. (2HCl,  $PtCl_4$ ) (Soc. 79, 474; Soc. 81, 421 C. 1902 [1] 998).  
 29) 7-Methyl-1,4-Benzpyron. Sm. 72—73°; Sd. 280° (Soc. 79, 473).  
 30) 8-Methyl-1,4-Benzpyron. Sm. 84—85°. (2HCl,  $PtCl_4$ ) (Soc. 79, 473; Soc. 81, 421 C. 1902 [1] 998).  
 31) Lakton d.  $\alpha$ -Oxy- $\alpha$ -Phenylpropen- $\gamma$ -Carbonsäure. Sm. 93° (B. 24, 4077; A. 299, 17, 54; A. 319, 198, 205 C. 1902 [1] 107). — II, 1658.  
 32) isom. Lakton d.  $\alpha$ -Oxy- $\alpha$ -Phenylpropen- $\gamma$ -Carbonsäure. Sm. 227° u. Zers. (A. 299, 55).  
 33) Lakton d.  $\gamma$ -Oxy- $\gamma$ -Phenylpropen- $\alpha$ -Carbonsäure. Fl. (A. 319, 203 C. 1902 [1] 107).  
 $C_{10}H_8O_3$  \*7) 7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 185° (B. 34, 356).  
 \*10) Methyläther d. 7-Oxy-1,2-Benzpyron. Sm. 117—118° (B. 34, 383).  
 \*12) 7-Oxy-2-Methyl-1,4-Benzpyron. Sm. 249—250° (B. 34, 107).  
 \*26) 1,6,7-Trioxynaphtalin. Sm. 175° (M. 23, 529 C. 1902 [2] 744).  
 30)  $\alpha\beta\gamma$ -Tri keto- $\alpha$ -Phenylbutan. Sd. 146—147°<sub>29</sub> (B. 35, 3315 C. 1902 [2] 1109).  
 31) polym.  $\alpha\beta\gamma$ -Tri keto- $\alpha$ -Phenylbutan. Sm. 202° (B. 35, 3319 C. 1902 [2] 1110).  
 32) Methyläther d. 7-Oxy-1,4-Benzpyron. Sm. 110° (B. 35, 865 C. 1902 [1] 813).  
 $C_{10}H_8O_4$  \*1) 1,2,5,8 [= 1,4,5,6]-Tetraoxynaphtalin (D.R.P. 129074 C. 1902 [1] 691).  
 \*15) 5-Oxy-2-Methylbenzofuran-1-Carbonsäure +  $\frac{1}{2}H_2O$ . Sm. 226° (wasserfrei) (B. 34, 360).  
 \*18)  $\alpha$ -Phenyläthen- $\beta\beta$ -Dicarbonsäure (G. 31 [2] 75).  
 \*21) 2, $\alpha$ -Lakton d.  $\alpha$ -Oxy- $\alpha$ -Phenyläthan-2, $\beta$ -Dicarbonsäure. Sm. 151,5° Ba +  $4H_2O$ . Ag (B. 34, 2834).  
 31) 6,7-Dioxy-4-Methyl-1,2-Benzpyron ( $\beta$ -Methyläskuletin). Sm. 269 bis 270° (B. 34, 423).  
 32) 7-Methyläther d. 5,7-Dioxy-1,4-Benzpyron. Sm. 117—118° (B. 35, 864 C. 1902 [1] 813).  
 $C_{10}H_8O_5$  \*16) Oxymarphenyläthersäure. Sm. 211° (G. 32 [2] 56 C. 1902 [2] 902).  
 $C_{10}H_8O_6$  14) 2,4-Dioxyphenylmaleinsäure. Sm. 187—188° u. Zers. (B. 34, 384).  
 $C_{10}H_8O_7$  \*3) 3-Oxy-1-Methylbenzol-2,4,6-Tricarbonsäure +  $2H_2O$ . Sm. 257° Na +  $3H_2O$  (G. 30 [1] 154).  
 4) Gem. Anhydrid d. Furan-2,5-Dicarbonsäure u. Essigsäure. Zers. bei 150° (Am. 25, 454).  
 $C_{10}H_5N_2$  13) Nikotellin. Sm. 147—148° (B. 34, 704).

- $C_{10}H_5Br_2$  1) 1,4-Di[ $\beta$ -Bromäthenyl]benzol. Sm.  $135^\circ$  (B. 34, 2785).
- $C_{10}H_5N$  \*1) 1-Amidonaphtalin.  $2 + 3BiCl_3 + BiJ_3$  (B. 34, 420; C. r. 135, 226 C. 1902 [2] 636).
- \*2) 2-Amidonaphtalin. (3HCl,  $TiCl_3$ ) (B. 35, 1114 C. 1902 [1] 937).
- \*3) 1-Phenylpyrrol (B. 35, 1654 C. 1902 [1] 1358).
- \*5) 2-Methylchinolin. (2HCl,  $PtCl_4$ ) (B. 35, 1993).
- 23) Nitril d.  $\alpha$ -Phenylpropen- $\gamma$ -Carbonsäure (oder N. d.  $\gamma$ -Phenylpropen- $\alpha$ -Carbonsäure). Sm.  $59-60^\circ$  (A. 319, 209 C. 1902 [1] 108). — \*II, 358.
- $C_{10}H_{10}O$  \*5) 1-Keto-2-Methyl-2,3-Dihydroinden (C. 1901 [2] 421).
- \*11) 3,6-Dimethylbenzfuran (C. 1901 [2] 1226).
- \*12) 4,5-Dimethylbenzfuran (C. 1901 [2] 1226).
- \*13) 4,6-Dimethylbenzfuran. Sd.  $220-222^\circ$  (C. 1901 [2] 1226).
- \*14) Benzylidenacetone. ( $2 + 2HCl, PtCl_4 + 2H_2O$ ) (B. 34, 2695).
- \*17) Aldehyd d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sd.  $230-235^\circ$  (M. 22, 99).
- 29)  $\gamma$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Butin. Sd.  $148-149^\circ_{99}$  (C. r. 134, 356; C. 1902 [1] 629).
- 30) act. 1-Keto-2-Methyl-2,3-Dihydroinden (C. 1902 [1] 661).
- $C_{10}H_{10}O_2$  \*8) Benzoylacetone. Fe, Cu (B. 35, 545 C. 1902 [1] 627; A. 323, 18 C. 1902 [2] 782).
- \*26) Lakton d. 1-[ $\alpha$ -Oxyisopropyl]benzol-2-Carbonsäure (B. 34, 1952).
- 39) 3- oder 5-Oxy-2,5- oder 2,3-Dimethylbenzfuran. Sm.  $94^\circ$  (B. 34, 361).
- $C_{10}H_{10}O_3$  \*18)  $\beta$ -Oxypropenphenyläther- $\alpha$ -Carbonsäure ( $\beta$ -Oxyisocrotonphenyläthersäure). Sm.  $155^\circ$  Ag (Soc. 79, 1190).
- \*23)  $\beta$ -Benzoylpropionsäure. Sm.  $116^\circ$ . Ba (B. 35, 3768 C. 1902 [2] 1458; A. 321, 97 C. 1902 [1] 979).
- \*29)  $\gamma$ -Lakton d.  $\alpha\gamma$ -Dioxy- $\gamma$ -Phenylbuttersäure. Sm.  $125^\circ$  (B. 35, 3768 C. 1902 [2] 1458).
- 54) Aldehyd d.  $\alpha$ -[3,4-Dioxyphenyl]propion-3,4-Methylenäthersäure. Sd.  $279-280^\circ$  (Bl. [3] 25, 856).
- 55) Methylester d.  $\beta$ -[4-Oxyphenyl]akrylsäure. Sm.  $126^\circ$  ( $137^\circ$ ) (M. 22, 432; A. 322, 224 C. 1902 [2] 276).
- $C_{10}H_{10}O_4$  \*19)  $\alpha$ -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm.  $120^\circ$ . Ba +  $1\frac{1}{2}H_2O$  (B. 34, 1998).
- \*39)  $\gamma$ -Lakton d.  $\alpha\beta\gamma$ -Trioxy- $\gamma$ -Phenylbuttersäure. Sm.  $115,5-116^\circ$  (A. 319, 206 C. 1902 [1] 107).
- 67)  $\beta\beta$ -Dioxy- $\alpha\gamma$ -Diketo- $\alpha$ -Phenylbutan. Sm.  $54-58^\circ$  (B. 35, 3315 C. 1902 [2] 1110).
- 68)  $\alpha$ -[3,4-Dioxyphenyl]propion-3,4-Methylenäthersäure. Sm.  $80^\circ$ .  $NH_3$ , Na +  $3H_2O$ , Ca +  $2H_2O$ , Cu, Pb, Ag (Bl. [3] 25, 857; C. 1902 [1] 1056).
- 69) 1,2-Dimethylbenzol-4,5-Dicarbonsäure. Sm.  $123^\circ$  (B. 35, 871 C. 1902 [1] 804).
- 70) 1,2-Lakton d. 4,5-Dioxy-1-Oxymethylbenzol-4,5-Dimethyläther-2-Carbonsäure (m-Mekonin). Sm.  $155-156^\circ$  (Soc. 81, 1027 C. 1902 [2] 747).
- 71) Aldehyd d. 4-Oxy-1-Acetoxylmethylbenzol-3-Carbonsäure. Sm. 61 bis  $62^\circ$  (B. 35, 127 C. 1902 [1] 465).
- 72) Aethylester d. Benzoylkohlensäure (C. 1901 [1] 347).
- 73) Acetat-Benzoat d. Dioxymethan. Sm.  $38^\circ$ ; Sd.  $255-260^\circ$  (C. r. 134, 717 C. 1902 [1] 975).
- 74) Salicylat d.  $\alpha$ -Oxy- $\beta$ -Ketopropan. Sm.  $71^\circ$  (D.R.P. 70054). — \*II, 887.
- $C_{10}H_{10}O_5$  \*5) 3,4-Dioxybenzoldimethyläther-1-Ketocarbonsäure (C. 1902 [1] 1057).
- \*13)  $\beta$ -Oxy- $\alpha$ -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm.  $147^\circ$  (B. 35, 1821 C. 1902 [2] 25).
- \*19) 4-Oxybenzoläthyläther-1,2-Dicarbonsäure +  $H_2O$ . Sm.  $163^\circ$  (B. 34, 3736 C. 1902 [1] 39).
- \*33) Dimethylester d. 4-Oxybenzol-1,2-Dicarbonsäure (M. 23, 325 C. 1902 [2] 201).
- 44) Aethylester-4-Oxyphenylester d. Oxalsäure. Sm.  $110-111^\circ$  (B. 35, 3454 C. 1902 [2] 1304).
- $C_{10}H_{10}O_6$  \*7) 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure +  $2H_2O$  (M. 23, 327 C. 1902 [2] 201; M. 23, 369 C. 1902 [2] 203; Soc. 79, 1405 C. 1902 [1] 203).

- $C_{10}H_{10}O_6$  \*17)  $\alpha\gamma\text{-}\epsilon\eta$ -Dilakton d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\delta$ -Methyl- $\beta\epsilon$ -Heptadien- $\gamma\epsilon$ -Dicarbonsäure (Aethylidenbistetransäure). Sm. 209—210° u. Zers. (A. 315, 152).
- \*28) 4-Oxybenzolzomethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm. 174°.  $Ag_2$  (Soc. 79, 1407 C. 1902 [1] 203).
- \*31) Monoäthylester d.  $\alpha$ -Resorcindicarbonsäure. Sm. 202—203° (G. 31 [1] 168).
- $C_{10}H_{10}N_2$  \*9) 1,8-Diamidonaphtalin. Sm. 66,5° (B. 35, 2805 C. 1902 [2] 1118).
- \*11) 2,6-Diamidonaphtalin. Sm. 216,6° (A. 323, 130 C. 1902 [2] 800).
- \*19) 3-Methyl-5-Phenylpyrazol. Sm. 127—128°. HCl, Pikrat (B. 34, 3984 C. 1902 [1] 192).
- 46) 2-Amido-8-Methylchinolin (B. 35, 3679 C. 1902 [2] 1474).
- 47) Verbindung (aus Bernsteinsäurealdehyd u. 1,2-Diamidobenzol). Sm. 175 bis 177° (B. 34, 1497).
- $C_{10}H_{10}Br_4$  \*6)  $\alpha\beta\gamma\delta$ -Tetrabrom- $\alpha$ -Phenylbutan. Sm. 146° (B. 35, 2651 C. 1902 [2] 588).
- $C_{10}H_{11}N$  \*4) 1,2-Dimethylindol (D.R.P. 128 660 C. 1902 [1] 610).
- \*8) 2,5-Dimethylindol. Sm. 114—115° (D.R.P. 127 245 C. 1902 [1] 154).
- 24)  $\gamma$ -Methylimido- $\alpha$ -Phenylpropan (Cinnamylmethylamin). Sd. 134 bis 141° (B. 35, 423 C. 1902 [1] 656).
- 25) 2-Phenyl-2,5-Dihydropyrrrol. HCl (B. 34, 1923).
- 26) Verbindung (aus Pyrrol u. Acetylacetone). Sm. 101—102° (B. 35, 2607 C. 1902 [2] 646; C. 1902 [2] 1473).
- $C_{10}H_{11}N_3$  13) 2,5-Dimethyl-1-Phenyl-1,3,4-Triazol. Sm. 237°. (2HCl, PtCl<sub>4</sub>), Pikrat (G. 31 [2] 125).
- 14) Nitril d.  $\alpha$ -Phenylhydrazonbuttersäure. Sm. 81—82° (C. 1901 [1] 1153; Bl. [3] 27, 197 C. 1902 [1] 916).
- 15) Nitril d.  $\alpha$ -[2-Methylphenyl]hydrazonpropionsäure. Sm. 131 bis 132° (Bl. [3] 25, 696; Bl. [3] 27, 197 C. 1902 [1] 916).
- 16) Nitril d.  $\alpha$ -[4-Methylphenyl]hydrazonpropionsäure. Sm. 166 bis 167° (Bl. [3] 25, 696; Bl. [3] 27, 196 C. 1902 [1] 196).
- $C_{10}H_{11}Cl$  2)  $\gamma$ -Chlor- $\alpha$ -Phenyl- $\beta$ -Buten. Fl. (B. 35, 2650 C. 1902 [2] 588).
- $C_{10}H_{12}O$  \*9) Anethol (B. 35, 2263 C. 1902 [2] 276).
- \*20) Aethylbenzylketon (Soc. 81, 1189).
- \*21)  $\gamma$ -Keto- $\alpha$ -Phenylbutan. Sd. 236°. + NaHSO<sub>3</sub> (B. 34, 1999, 2000).
- \*25) Aethyl-4-Methylphenylketon. Sd. 238—239° (B. 35, 2252 C. 1902 [2] 273).
- \*31) Aldehyd d.  $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure. Sd. 224—227° (M. 22, 106).
- \*33) Aldehyd d. 1-Isopropylbenzol-4-Carbonsäure (C. r. 133, 635).
- 42)  $\gamma$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten. Sd. 144°<sub>21</sub> (B. 35, 2649 C. 1902 [2] 588; B. 35, 3186 C. 1902 [2] 1204).
- 43) Methyläther d.  $\beta$ -[4-Oxyphenyl]propen (Pseudopropenylanisol). Sm. 32°; Sd. 222° (C. 1901 [1] 831). — \*II, 498.
- 44) 4-Methylphenyläther d.  $\gamma$ -Oxypropen (Allyläther d. 4-Oxy-1-Methylbenzol). Sd. 214,5° (Soc. 69, 1247). — \*II, 433.
- 45) Methyläther d. 4-Oxy-2,3-Dihydroinden. Sd. 225—227° (B. 34, 1259).
- 46) Aethyl-2-Methylphenylketon. Sd. 219—221° (C. r. 133, 1218 C. 1902 [1] 299).
- 47) 2,5-Dimethyl-1,2-Dihydrobenzofuran. Sd. 213—215°<sub>21</sub> (B. 34, 51).
- 48) Aldehyd d.  $\beta$ -Phenylpropan- $\beta$ -Carbonsäure. Sd. 205° (C. r. 134, 1507 C. 1902 [2] 361).
- $C_{10}H_{12}O_2$  \*3) 3-Methyläther d. 3,4-Dioxy-1-Allylbenzol (B. 34, 3359; J. pr. [2] 66, 56 C. 1902 [2] 520).
- \*5) Isoeugenol (C. r. 133, 823 C. 1902 [1] 21).
- \*17) Methyläther d.  $\beta$ -Keto- $\alpha$ -[4-Oxyphenyl]propan. Sd. 261—265° (Bl. [3] 27, 990 C. 1902 [2] 1256).
- \*18) Methyläther d. Aethyl-4-Oxyphenylketon. Sm. 26—27°; Sd. 148°<sub>14</sub> (C. 1902 [1] 1162; B. 35, 2263 C. 1902 [2] 275).
- \*48) 1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 147—149° (R. 19, 380).
- \*65) Acetat d.  $\alpha$ -Oxy- $\alpha$ -Phenyläthan. Sd. 215° u. Zers. (C. 1902 [2] 704).
- \*80) Aldehyd d.  $\alpha$ -[4-Oxyphenyl]propionmethyläthersäure. Sd. 255 bis 256°. + NaHSO<sub>3</sub> (Bl. [3] 25, 446; C. 1902 [1] 1056).
- 81) Rhododendrol. Sm. 79,5—80° (C. 1901 [2] 594).



- $C_{10}H_{12}O_2$  82) 4-Methyläther d. 3,4-Dioxy-1-Propenylbenzol. (Isochavibetol). Sm. 92°; Sd. 147°<sub>19</sub> (C. 1901 [1] 806).  
 83) Methylallyläther d. 1,2-Dioxybenzol. Sd. 215°<sub>378</sub> (J. 1890, 1196). — \*II, 547.  
 84) Methyläther d. Aethyl-2-Oxyphenylketon. Sd. 137,5°<sub>16,5</sub> (C. 1902 [2] 216).  
 85) Methyläther d. Methyl-4-Oxybenzylketon. Sd. 264° (C. 1901 [1] 831). — \*II, 498.  
 86) Aethyläther d. Methyl-3-Oxyphenylketon. Sd. 255° (B. 34, 1691).  
 87) d- $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure (d- $\beta$ -Phenylisobuttersäure). Fl. Na, Chininsalz (C. 1902 [1] 661, 662).  
 88) Säure (aus Citral). Sm. 110° (C. 1901 [2] 598).  
 89) Aldehyd d.  $\alpha$ -Oxy- $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure. Fl. (M. 22, 96).  
 90) Methylester d. 4-Oxy-1-Aethylbenzol-2-Carbonsäure? Sm. 71° (A. 319, 343 C. 1902 [1] 351).  
 91) Aethylester d.  $\Delta^{2,4}$ -Norcaradien-7-Carbonsäure. (Ae. d. Pseudo-phenylessigsäure). Sd. 108°<sub>13</sub> (B. 18, 2379; 30, 634; 31, 402; 34, 990). — \*II, 832.
- $C_{10}H_{12}O_3$  \*7) Dimethyläther d. Methyl-3,4-Dioxyphenylketon (C. 1902 [1] 1057).  
 \*9) 5-Aethyläther d. Methyl-2,5-Dioxyphenylketon (B. 34, 1695).  
 \*32) 4-Aethoxyphenylessigsäure. Sm. 89° (A. 322, 149 C. 1902 [2] 282).  
 \*87)  $\alpha$ -[4-Methoxyphenyl]propionsäure.  $NH_4$ , Na + 2 H<sub>2</sub>O, Ca + 2 H<sub>2</sub>O, Cu, Pb + H<sub>2</sub>O, Ag (C. 1902 [1] 1056).  
 \*93) 2-Oxyphenylessigäthyläthersäure. Sm. 103° (B. 35, 1637 C. 1902 [1] 1360).  
 98)  $\alpha$ -Oxy- $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure. Sm. 105—107° (M. 22, 102).  
 99)  $\alpha$ -Oxy- $\alpha$ -Phenylbuttersäure. Sm. 126° (C. r. 135, 629 C. 1902 [2] 1359).  
 100)  $\beta$ -Oxy- $\beta$ -Phenylbuttersäure ( $\beta$ -Methylphenyläthylennilchsäure). Sm. 50—53°. Ca, Zn + 2 H<sub>2</sub>O, Ag (J. pr. [2] 64, 553 C. 1901 [1] 998).  
 101)  $\alpha$ -[4-Oxyphenyl]propionmethylläthersäure. Sm. 57° (C. 1901 [1] 1161; Bl. [3] 25, 448).  
 102) Anhydrid d. Isodehydrocamphersäure. Sm. 182—183° (B. 35, 1287 C. 1902 [1] 1102).  
 103) Monacetat d. 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol. Sm. 64,5°; Sd. 170—180°<sub>30</sub> (B. 35, 1631 C. 1902 [1] 1359).
- $C_{16}H_{12}O_4$  \*1) 3,4-Methylenäther d. 3,4-Dioxy-1-[ $\beta\gamma$ -Dioxypropyl]benzol. Quecksilberacetat (B. 35, 2998 C. 1902 [2] 1048).  
 \*8) Diäthyläther d. 2,5-Dioxy-1,4-Benzochinon. Sm. 186° (183°) (M. 22, 349; B. 34, 3994 C. 1902 [1] 187).  
 \*34) Aldehyd d. 2,4,5-Trioxybenzoltrimethyläther-1-Carbonsäure. (Asarylaldehyd). Sm. 114° (B. 34, 1023; B. 35, 3189 C. 1902 [2] 1254).  
 61)  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propion-4-Methyläthersäure. Sm. 129 bis 130°. Na + 2 H<sub>2</sub>O, Ca + 2 H<sub>2</sub>O (Bl. [3] 25, 854).  
 62) Oxyessig-2-Methoxy-4-Methylphenyläthersäure. Sm. 84—85°; Sd. 275° u. Zers. (D.R.P. 83538). — \*II, 580.  
 63) Säure (aus  $\beta\beta$ -Diisoamylsulfon- $\alpha$ -Methylbuttersäureäthylester). Sm. 234° (B. 34, 2663).  
 64) Methylester d. 4-Oxy-1-Methoxybenzol-3-Carbonsäure. Fl. (B. 35, 130 C. 1902 [1] 465).  
 65) Methylcarbonat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sd. 266—272° (D.R.P. 60716). — \*II, 580.
- $C_{10}H_{12}O_5$  \*9) 3,4,5-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 168°. Ca, Cu, Ag (B. 34, 3009).  
 \*23) Diäthylester d. Furan-2,5-Dicarbonsäure. Sm. 47°; Sd. 167—168°<sub>15</sub> (B. 34, 3453).  
 \*24)  $\alpha\gamma$ - oder  $\beta\gamma$ -Dioxypropylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 76° (B. 34, 1770; C. 1901 [2] 1186).  
 \*27) Ketotrimethyldicyklopentandicarbonsäure. Sm. 146°. Ag<sub>2</sub> (Soc. 79, 787; C. 1901 [1] 1287).  
 \*28) 4-Aethylester d. 3-Methylfuran-4-Carbonsäure-5-Methylcarbon-säure. Sm. 109°. Ag (B. 35, 1550 C. 1902 [1] 1227).  
 30) 2,4,6-Trioxy-1,3-Dimethylbenzol-2-Methyläther-5-Carbonsäure. Sm. 156—157° u. Zers. (M. 23, 103 C. 1902 [1] 1100).

- C<sub>10</sub>H<sub>12</sub>O<sub>5</sub>** 31) 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 140—141° u. Zers. (*M.* 23, 97 *C.* 1902 [1] 1099).  
 32)  $\gamma\delta$ -Anhydrid d. cis- $\gamma$ -Oxy- $\beta\beta$ -Dimethylpentan- $\alpha\gamma\delta$ -Tricarbonsäure- $\alpha\gamma$ -Lakton. Sm. 131° (*Soc.* 79, 790).  
 33)  $\gamma\delta$ -Anhydrid d. trans- $\gamma$ -Oxy- $\beta\beta$ -Dimethylpentan- $\alpha\gamma\delta$ -Tricarbonsäure- $\alpha\gamma$ -Lakton. Sm. 94—96° (*Soc.* 79, 789).  
 34) Methylester d. 2,4,6-Trioxy-1,3-Dimethylbenzol-5-Carbonsäure + H<sub>2</sub>O. Sm. 138—140° (141°) (wasserfrei) (*M.* 22, 220; *M.* 23, 101, 107 *C.* 1902 [1] 1099).  
 35) Methylester d. 2,4,6-Trioxy-1-Methylbenzol-6-Methyläther-3-Carbonsäure. Sm. 132—133° (*M.* 23, 100 *C.* 1902 [1] 1099).  
 36) Methylester d. 2,4,6-Trioxybenzol-2,4-Dimethyläther-1-Carbonsäure. Sm. 107—109° (*M.* 23, 90 *C.* 1902 [1] 1098).
- C<sub>10</sub>H<sub>12</sub>O<sub>3</sub>** \*4) Tetramethylester d. Aethentetracarbonsäure. Sm. 120—120,5° (*B.* 34, 2079).  
 \*6) dimolec. Glutakonsäure. Sm. 207° (*B.* 34, 677).  
 8) isom. dimolec. Glutakonsäure. Sm. 234° (*B.* 34, 676).
- C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>** \*11) 1,2,5-Trimethylbenzimidazol + xH<sub>2</sub>O. Sm. 100° (140° wasserfrei). — (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 35, 1260 *C.* 1902 [1] 1061).  
 11) 1,2,6-Trimethylbenzimidazol. Sm. 122—123°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 35, 1261 *C.* 1902 [1] 1061).  
 32) 1,4,6- oder 1,5,7-Trimethylbenzimidazol. Sm. 70°. (2HCl, PtCl<sub>4</sub>) (*B.* 34, 4206 *C.* 1902 [1] 263).  
 33) Nikotein. Sd. 266—267°. 2HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (*B.* 34, 700).  
 34) Nitril d. Methyl-4-Methylphenylamidoessigsäure. Sm. 62° (D.R.P. 132621 *C.* 1902 [2] 315).
- C<sub>10</sub>H<sub>12</sub>N<sub>6</sub>** 2)  $\alpha\beta$ -Diamido- $\alpha\beta$ -Di[4-Pyrimidyl]äthan. Sm. 142—145° u. Zers. 4HCl, 4HJ (*B.* 35, 1571 *C.* 1902 [1] 1235).
- C<sub>10</sub>H<sub>12</sub>Br<sub>2</sub>** \*15) 3,6-Dibrom-1,2,4,5-Tetramethylbenzol. Sm. 199—200° (*B.* 35, 870 *C.* 1902 [1] 804).  
 17)  $\beta\gamma$ -Dibrom- $\alpha$ -Phenylbutan. ( $\beta\gamma$ -Dibrombutylbenzol). Fl. (*B.* 35, 2651 *C.* 1902 [2] 588).  
 18)  $\beta\gamma$ -Dibrom- $\beta$ -Phenylbutan. Fl. (*B.* 35, 2641 *C.* 1902 [2] 586).  
 19) 4,5-Di[Brommethyl]-1,2-Dimethylbenzol. Sm. 157° (*B.* 35, 870 *C.* 1902 [1] 804).
- C<sub>10</sub>H<sub>12</sub>S<sub>2</sub>** 2) Aethylenäther d. 1,2-Di[Merkaptomethyl]benzol. Sm. 110° (*B.* 35, 1394 *C.* 1902 [1] 1096).  
 3) Aethylenäther d. 1,4-Di[Merkaptomethyl]benzol. Sm. 113—114° (*J. pr.* [2] 64, 528 *C.* 1902 [1] 260).
- C<sub>10</sub>H<sub>13</sub>N** \*5) 2-Amido-1,2,3,4-Tetrahydronaphtalin (*Soc.* 79, 75).  
 \*7) 6-Amido-1,2,3,4-Tetrahydronaphtalin (*B.* 35, 2513 *C.* 1902 [2] 451).  
 \*13) 1-Methyl-1,2,3,4-Tetrahydrochinolin. HJ (*B.* 35, 3583 *C.* 1902 [2] 1385).  
 \*19) 2-Methyl-1,2,3,4-Tetrahydroisochinolin (Isokairolin). Sd. 212° (2HCl, PtCl<sub>4</sub>), Pikrat (*B.* 34, 3987 *C.* 1902 [1] 210).  
 \*26) d-2-Amido-1,2,3,4-Tetrahydronaphtalin. HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), d- u. l-Camphersulfonat, d- und l-Chlorcamphersulfonat, d- u. l-Bromcamphersulfonat (*Soc.* 79, 75, 83).  
 30)  $\alpha$ -Phenylimido- $\beta$ -Methylpropan. Sd. 95°<sub>15</sub> (*M.* 22, 471).  
 31)  $\alpha$ -Benzylamidopropen? (Isoallylbenzylamin). Fl. (*B.* 32, 972). — \*II, 289.  
 32) 1-Amido-2-Methyl-2,3-Dihydroinden. HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), H<sub>2</sub>SO<sub>4</sub> (*C.* 1901 [2] 421).  
 33) 1-2-Amido-1,2,3,4-Tetrahydronaphtalin. HCl, d-Camphersulfonat, l-Chlorcamphersulfonat, l-Bromcamphersulfonat (*Soc.* 79, 76). — \*II, 329.
- C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>** 5) 4-Amido-1,2,5-Trimethylbenzimidazol. 2HCl + H<sub>2</sub>O, Tartrat (*B.* 34, 1132).
- C<sub>10</sub>H<sub>13</sub>Cl** 13)  $\beta$ -Chlor- $\beta$ -Phenylbutan. Fl. (*B.* 35, 3508 *C.* 1902 [2] 1319).  
 14) 4-[ $\alpha$ -Chloräthyl]-1-Aethylbenzol. Sd. 112,5—113°<sub>15</sub> (*B.* 35, 2250 *C.* 1902 [2] 273).
- C<sub>10</sub>H<sub>13</sub>Br** \*8) 2-Brom-4-Isopropyl-1-Methylbenzol (*Soc.* 79, 1004).
- C<sub>10</sub>H<sub>13</sub>J** \*14) 3-Brom-1,2,4,5-Tetramethylbenzol (*B.* 35, 870 *C.* 1902 [1] 804).  
 \*1) 4-Jod-1-tert. Butylbenzol. Sd. 255—256° (*B.* 34, 3668).  
 \*3) 3-Jod-4-Isopropyl-1-Methylbenzol. Sd. 122—124°<sub>15</sub> (*J. pr.* [2] 65, 573 *C.* 1902 [2] 352).



- C<sub>10</sub>H<sub>12</sub>J** 4) 4-Jod-1-Isobutylbenzol. Sd. 120—121°<sub>11</sub> (*J. pr.* [2] 65, 570 *C.* 1902 [2] 351).  
5) 2-Jod-4-Isopropyl-1-Methylbenzol. Sd. 139°<sub>23</sub> (*J. pr.* [2] 65, 572 *C.* 1902 [2] 352).  
6) 2-Jod-5-Aethyl-1,3-Dimethylbenzol. Sd. 142—144°<sub>22</sub> (*J. pr.* [2] 65, 576 *C.* 1902 [2] 352).
- C<sub>10</sub>H<sub>14</sub>O** \*1)  $\alpha$ -Oxy- $\alpha$ -Phenylbutan. Sd. 113—115°<sub>10</sub> (*C.* 1901 [2] 623).  
\*3)  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sd. 112—113°<sub>13</sub> (*C.* 1901 [2] 623).  
\*13) 3-Oxy-4-Isopropyl-1-Methylbenzol (*C.* 1901 [2] 1030; 1902 [2] 75).  
\*37) Aethyläther d. 4-Oxy-1-Aethylbenzol. Sd. 211° (*B.* 34, 1262).  
\*58)  $\beta$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sm. 0°; Sd. 103—105°<sub>10</sub> (*C.* 1901 [2] 623).  
63)  $\beta$ -Oxy- $\beta$ -Phenylbutan. Sd. 102°<sub>14</sub> (*B.* 35, 3508 *C.* 1902 [2] 1319).  
64)  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]propan. Sm. 15°; Sd. 223—226° (*B.* 35, 2252 *C.* 1902 [2] 273).  
65) 4-Oxy-1-sec. Butylbenzol. Sm. 53—54°; Sd. 239,5—240,5° (*B.* 33, 442). — \*II, 466.  
66) 4-[ $\alpha$ -Oxyäthyl]-1-Aethylbenzol. Sd. 119,5°<sub>14</sub> (*B.* 35, 2250 *C.* 1902 [2] 273).  
67) 4-[ $\alpha$ -Oxyäthyl]-1,3-Dimethylbenzol. Sd. 118°<sub>12</sub> (*B.* 35, 2248 *C.* 1902 [2] 273).  
68) 2-Keto- $\beta$ -Isopropyliden-5-Methyl-1,2,3,4-Tetrahydrobenzol<sup>p</sup> Sd. 160°<sub>25</sub> (*Bl.* [3] 25, 246).  
69) Aromadendral (Aldehyd). Sd. 210° u. Zers. (*C.* 1901 [2] 1006).  
70) 1-Carvon (*B.* 9, 473; 16, 1387; 28, 640; *A.* 305, 224). — \*II, 461.  
71) i-Carvon (*A.* 306, 272). — \*II, 461.  
72) Limonenon. Fl. (*Bl.* [3] 25, 527).  
73) Oxyd (aus  $\zeta$ -9-Diketo- $\beta$ -Methyl- $\beta$ -Nonen). Sd. 237—238° (*Bl.* [3] 27, 67 *C.* 1902 [1] 566).
- C<sub>10</sub>H<sub>14</sub>O<sub>2</sub>** \*4) 2,5-Dioxy-4-Isopropyl-1-Methylbenzol. Sm. 143° (145°); Sd. 190° (*B.* 34, 1535; *Bl.* [3] 27, 996 *C.* 1902 [2] 1256).  
\*21)  $\beta$ -[3,5-Diketo-4-Methylhexahydrophenyl]propen. Sm. 185—187° (194°) (*B.* 34, 2105).  
\*26) Dehydrocamphenylsäure (*C.* 1901 [2] 346).  
\*27) Campholenlaktone. Sm. 32°; Sd. 193°<sub>13</sub> (*Bl.* [3] 27, 404 *C.* 1902 [1] 1334).  
\*32) Oxyketon (aus Campherchinon). Sm. 112—113° (*Cu* (*B.* 35, 3836 *C.* 1902 [2] 1461)).  
37)  $\alpha$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sd. 280° (*M.* 22, 97). — \*II, 672.  
38) 5-Oxy-6-Oxymethyl-1,2,4-Trimethylbenzol. Sm. 91—92° (*B.* 35, 3844 *C.* 1902 [2] 1454).  
39) 4,5-Di[Oxymethyl]-1,2-Dimethylbenzol. Sm. 74° (*B.* 35, 871 *C.* 1902 [1] 804).  
40) Phenol (aus Phellandrenolglykuronsäure). Sm. 142° (*H.* 33, 591).  
41) 4-Methyläther d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. Sd. 141—142°<sub>16</sub> (*B.* 35, 2263 *C.* 1902 [2] 276).  
42) 2-Aethyläther d. 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol. Sd. 136—137°<sub>14</sub> (*B.* 34, 1811).  
43) Monobutyläther d. 1,2-Dioxybenzol. Sd. 231—234° (*D.R.P.* 92651). — \*II, 547.  
44) 1,3-Dimethyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sm. 150 bis 152°; Sd. 170°<sub>18</sub>. Ag (*A.* 323, 143 *C.* 1902 [2] 842).  
45) Säure (aus Aromadendral). Sm. 110° (*C.* 1901 [2] 1006).
- C<sub>10</sub>H<sub>14</sub>O<sub>3</sub>** 38) 4-Methyläther d. 4-Oxy-1-[ $\alpha$ - $\beta$ -Dioxypropyl]benzol. Sm. 98° (*B.* 35, 2997 *C.* 1902 [2] 1048).
- C<sub>10</sub>H<sub>14</sub>O<sub>4</sub>** \*4) 1,4-Diäthyläther d. 1,2,4,5-Tetraoxybenzol. Sm. 138° (*B.* 34, 3996 *C.* 1902 [1] 187).  
\*9) 1-Camphansäure (*Soc.* 79, 1283).  
38) Dehydrocamphersäure. Sm. 202—203° (*A.* 299, 138 Anm.; *B.* 35, 1287 *C.* 1902 [1] 1102).  
39) Isodehydrocamphersäure. Sm. 178—179° (*B.* 35, 1287 *C.* 1902 [1] 1102).  
40) Säure (aus Citral). Sm. 96° (*C.* 1901 [2] 598).  
41) Säure (aus Citral). Sm. 187° (*C.* 1901 [1] 53; 1901 [2] 598).  
42)  $\alpha$ -Laktone d.  $\alpha$ - $\beta$ -Dioxy- $\zeta$ -Keto- $\delta$ - $\delta$ -Dimethyl- $\beta$ -Hepten- $\gamma$ -Carbonsäure. Sm. 122—124° (*A.* 315, 164; *A.* 322, 362 *C.* 1902 [2] 734).

- $C_{10}H_{14}O_5$  17) Diäthylester d.  $\delta$ -Oxy- $\alpha\gamma$ -Butadien- $\alpha\gamma$ -Dicarbonsäure. Sm. 66—67°. Cu (A. 316, 29).
- 18) Diäthylester d.  $\alpha$ -Oxy- $\alpha\gamma$ -Butadien- $\alpha\delta$ -Dicarbonsäure (D. d.  $\gamma$ -Oxal-crotonsäure). Sm. 78—80°. Na, Cu, Ag (C. 1900 [2] 173; Soc. 79, 1276).
- $C_{10}H_{14}O_6$  23)  $\alpha\gamma$ -Lakton d. cis- $\gamma$ -Oxy- $\beta\beta$ -Dimethylpentan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 181°. Zers. bei 200° (Soc. 79, 790).
- 24)  $\alpha\gamma$ -Lakton d. trans- $\gamma$ -Oxy- $\beta\beta$ -Dimethylpentan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 237° u. Zers.  $Ba_3$ ,  $Ag_2$  (Soc. 79, 788).
- $C_{10}H_{14}N_2$  35) 2,4,5-Trimethylbenzylidenhydrazin. Sm. 70°; Sd. 165—166°<sub>14</sub>. Pikrat (B. 35, 3237 C. 1902 [2] 1044).
- 36) Nikotimin. Sd. 250—255° (B. 34, 706).
- $C_{10}H_{14}Cl_2$  4) 1,4-Dichlor-1,2,4,5-Tetramethyl-1,2-Dihydrobenzol. Sd. 78—82°<sub>20</sub> (J. r. 26, 15). — \*II, 14.
- $C_{10}H_{15}N$  \*6) 4-Amido-5-Aethyl-1,3-Dimethylbenzol. Sd. 237°.  $H_2SO_4$  (A. 211, 237; B. 24, 2974; 34, 3666).
- \*19) Isobutylamidobenzol. Sd. 225—226° (A. 318, 142).
- \*21) Diäthylamidobenzol. (HCl,  $BiCl_3$ ) (B. 35, 665 C. 1902 [1] 727).
- 58)  $\gamma$ -Methylamido- $\alpha$ -Phenylpropan (Hydrocinnamylmethylenamin). Sd. 133—135°<sub>18</sub>. HCl, (2HCl,  $PtCl_4$ ), Pikrat (B. 35, 423 C. 1902 [1] 656).
- 59) Methylpropylamidobenzol. Sd. 212° (220—222°). HCl (J. 1883, 702; B. 19, 2786; 29, 2112). — II, 335; \*II, 154.
- 60) 4-Amido-5-Aethyl-1,3-Dimethylbenzol. Sd. 241° (D.R.P. 67 844). — \*II, 319.
- $C_{10}H_{15}N_3$  2)  $\alpha$ -Phenyläthylbiguanid. Sm. 131—132° (B. 34, 2602).
- $C_{10}H_{15}Cl_3$  1) Chlorkamphendichlorid. Sm. 135°; Sd. 130—135°<sub>10</sub> (B. 35, 1020 C. 1902 [1] 933).
- $C_{10}H_{15}Br$  3)  $\alpha$ -Brom- $\beta$ -[5-Methyl-1,2,3,4-Tetrahydro-2-Phenyl]propen. Sd. 105—110°<sub>10</sub> (A. 324, 85 C. 1902 [2] 1201).
- $C_{10}H_{15}Br_3$  3) i-Bromkamphendibromid. Sm. 77—78°; Sd. 173—176°<sub>12</sub> (B. 35, 1020 C. 1902 [1] 933).
- $C_{10}H_{15}Br_5$  2) 1,2-Dibrom-4-[ $\alpha\beta\beta$ -Tribromisopropyl]-1-Methylhexahydrobenzol. Sm. 137° (A. 324, 85 C. 1902 [2] 1201).
- $C_{10}H_{16}O$  \*7) d-Campher. Kobaltcyanhydrat + 2H<sub>2</sub>O (B. 34, 2694; A. 316, 196; Soc. 81, 309 C. 1902 [1] 969; Ar. 240, 257 C. 1902 [2] 133; D.R.P. 134 553 C. 1902 [2] 975).
- \*10) Isocampher (4-Keto-5-Methyl-1-Isopropyl-1,2,3,4-Tetrahydrobenzol) (G. 31 [2] 286).
- \*13) Carvenon. Sd. 235—236°<sub>147</sub> (A. 314, 376).
- \*15) r-4-Keto-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol (Carvotanacetone) (B. 34, 1929).
- \*36) Thujon (A. 323, 369 C. 1902 [2] 1206).
- \*37) Isothujon. Sd. 231—232° (A. 323, 334 C. 1902 [2] 1204).
- 69) d-4-Keto-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol ( $\Delta^6$ -Menth-2-on). Sd. 227—228° (B. 34, 1930).
- 70) Camphenol. Sd. 202—204° (H. 33, 592).
- 71)  $\alpha$ -Cyklo-Citral (D.R.P. 133 758 C. 1902 [2] 614).
- 72) Limonenol. Sd. 135°<sub>15</sub> (Bl. [3] 25, 527).
- 73) Lippial. Sd. 106—109°<sub>10</sub> (C. 1901 [1] 711).
- 74) l-Oxycamphen. Sm. 74°; Sd. 212°<sub>750</sub> (Soc. 79, 651; Soc. 81, 264 C. 1902 [1] 659, 809).
- 75) Hämatommin (oder  $C_{20}H_{32}O_2$ ). Sm. 143—144° (J. pr. [2] 65, 560 C. 1902 [2] 382).
- 76) Aldehyd d.  $\beta\zeta$ -Dimethyl- $\beta\epsilon$ -Heptadien- $\eta$ -Carbonsäure. Sd. 225 bis 230° (C. 1901 [1] 651).
- 77) Aldehyd d. 1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol-6-Carbonsäure. Sd. 90—91°<sub>16</sub> (C. 1901 [2] 245).
- 78) Aldehyd d. Säure  $C_{10}H_{16}O_2$  (aus Myrcenol). Sd. 110°<sub>10</sub> (Bl. [3] 25, 689).
- 79) Verbindung (aus 1-Oxy-1-Methyl-4- $\alpha\beta$ -Dioxyisopropylhexahydrobenzol). Sd. 217—225° (C. 1902 [1] 1294).
- 80) Verbindung (aus Campherchinon). Sm. 38° (B. 35, 3521 C. 1902 [2] 1460).
- $C_{10}H_{16}O_2$  \*2)  $\zeta\theta$ -Diketo- $\beta$ -Methyl- $\beta$ -Nonen (Bl. [3] 27, 66 C. 1902 [1] 566).
- \*6) 3-Isobutyryl-4-Keto-1-Methyl-R-Pentamethylen (Bl. [3] 27, 69 C. 1902 [1] 567).

- C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>** \*13) isom. Oxycampher (aus Campherchinon). Sm. 203—205° (B. 35, 3811 C. 1902 [2] 1459).  
 \*16) Diosphenol. Sm. 82° (J. pr. [2] 63, 58).  
 \*25)  $\beta$ -Fencholensäure. Sm. 68—70° (A. 315, 278; C. 1901 [1] 1002).  
 \*32) Lakton (aus Pulegensäure). Sm. 19°; Sd. 128°<sub>15</sub> (Bl. [3] 27, 312 C. 1902 [1] 1223).  
 \*40) 3-Keto-2-Acetyl-1,1-Dimethylhexahydrobenzol. Sd. 110—111°<sub>12</sub> (Bl. [3] 27, 68 C. 1902 [1] 566).  
 55) 5-Keto-6-Oxymethylen-1,1,3-Trimethylhexahydrobenzol (Oxymethylendihydroisophoron). Sd. 124°<sub>27</sub> (C. 1901 [1] 1024).  
 56) 3-Keto-4-Acetyl-1,1-Dimethylhexahydrobenzol. Sd. 122—123°<sub>18</sub> (Bl. [3] 27, 68 C. 1902 [1] 567).  
 57) 3-Keto-4-Acetyl-1,4-Dimethylhexahydrobenzol. Sd. 114—116°<sub>11</sub> (Bl. [3] 25, 198).  
 58) isom. Oxycampher (aus Oxycampheräthyläther). Sm. 212—213° (B. 35, 3816 C. 1902 [2] 1459).  
 59) Oxymethon. Sm. 89°; Sd. 253—255° (C. 1901 [1] 1227).  
 60) Ketooxypinen. Sd. 170—171°<sub>20</sub> (B. 35, 2996 C. 1902 [2] 1048).  
 61)  $\epsilon$ -Oxy- $\epsilon$ -[2-Furanyl]- $\beta$ -Methylpentan. Sd. 118°<sub>14</sub> (C. 1901 [2] 623).  
 62)  $\beta$ -Dimethyl- $\beta$ - $\epsilon$ -Heptadien- $\gamma$ -Carbonsäure. Sd. 160°<sub>12</sub> (C. 1901 [1] 651).  
 63) Kaurinsäure. Sm. 192°. K, Pb (C. 1901 [1] 943).  
 64) Säure (aus Brom- $\alpha$ -Dihydrocampholensäureäthylester). Sm. 70°; Sd. 155°<sub>12</sub> (Bl. [3] 27, 75 C. 1902 [1] 586).  
 65) Lakton d.  $\delta$ -Oxydihydrofencholensäure. Sm. 72° (B. 34, 3784 C. 1902 [1] 43).  
 66) Lakton (aus Pulegensäure). Sm. 79—80°; Sd. 128—130°<sub>15</sub> (Bl. [3] 27, 308 C. 1902 [1] 1223).  
 67) Methyl ester d.  $\alpha$ -Oktin- $\alpha$ -Carbonsäure. Sd. 122°<sub>19</sub> (C. 1901 [1] 1149; D.R.P. 133631 C. 1902 [2] 553).  
 68) Methyl ester d. 1,3-Dimethyl- $\beta$ -Tetrahydrobenzol-4-Carbonsäure. Sd. 209—210°<sub>733</sub> (Soc. 79, 351).  
 69) Methyl ester d. 1,3-Dimethyl- $\beta$ -Tetrahydrobenzol-4-Carbonsäure (Gemisch). Sd. 212—213°<sub>750</sub> (Soc. 79, 352). — \*II, 710.  
 70) Äthylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 114—117°<sub>17—18</sub> (C. 1901 [1] 1149; D.R.P. 133631 C. 1902 [2] 553).  
 71) Äthylester d. 2,3,4,5-Tetrahydro-R-Hepten-1-Carbonsäure. Sd. 100°<sub>17</sub> (A. 317, 236).  
 72) Acetat d.  $\alpha$ -Oxy- $\beta$ -Oktin. Sd. 113—114°<sub>18</sub> (C. 1901 [2] 25; Bl. [3] 27, 363 C. 1902 [1] 1319).  
 73) Verbindung (aus Pulegon). Sd. 113°<sub>21</sub> (Bl. [3] 27, 309 C. 1902 [1] 1223).  
**C<sub>10</sub>H<sub>16</sub>O<sub>3</sub>** \*3) Campholenoxysäure (Dihydroketocampholensäure) (Bl. [3] 27, 406 C. 1902 [1] 1334).  
 \*16)  $\alpha$ -Pinonsäure (C. 1902 [1] 21).  
 \*19) Isothujaketonsäure. Sm. 43°; Sd. 273° (B. 33, 276; A. 323, 336 C. 1902 [2] 1204).  
 \*23) Ketonsäure + H<sub>2</sub>O (aus Campherchinon). Sm. 97—98°; Sd. 297—302° u. ger. Zers. (B. 35, 3831 C. 1902 [2] 1461).  
 \*33) Ketolakton (aus Thujamenthon). Sm. 42°; Sd. 130—132°<sub>10</sub> (A. 323, 359 C. 1902 [2] 1206).  
 \*53) Äthylester d. 2-Keto-1-Methylhexahydrobenzol-1-Carbonsäure. Sd. 108—109°<sub>11—12</sub> (A. 317, 106).  
 54) 5-Keto-1,1,3-Trimethylhexahydrobenzol-4-Carbonsäure (Dihydroisophoronecarbonsäure). Sm. 111,5° (D.R.P. 136873 C. 1902 [2] 1371).  
 55) Äthylester d. 2-Keto-R-Heptamethylen-1-Carbonsäure. Fl. (A. 317, 49).  
 56) Äthylester d. 3-Keto-1-Methylhexahydrobenzol-2- oder 4-Carbonsäure. Sd. 145—150°<sub>29</sub> (B. 34, 3795 C. 1902 [1] 26).  
 57) Verbindung (aus Trimethylcarbinol u. Hydrochinon (B. 35, 1211 C. 1902 [1] 998).  
**C<sub>10</sub>H<sub>16</sub>O<sub>4</sub>** \*1) d-Camphersäure (A. 316, 209).  
 \*2) l-Camphersäure (A. 316, 210).  
 \*3) i-Camphersäure (A. 316, 210).  
 \*4) d-Isocamphersäure (A. 316, 211).  
 \*5) l-Isocamphersäure (A. 316, 211).

- $C_{10}H_{16}O_4$  \*6) i-Isocampfersäure (A. 316, 211).  
 \*12) Digitsäure (B. 34, 3568 Anm.).  
 \*60) Aethylester d.  $\beta$ -Isobutyroxylpropen- $\alpha$ -Carbonsäure (Ae. d. O-Isobutyrylacetessigsäure). Sd. 117°<sub>15</sub> (Bl. [3] 27, 1051 C. 1902 [2] 1411).  
 64) 3-Methylhexahydrophenylmalonsäure. Sm. 143—144° (B. 34, 3886 C. 1902 [1] 110).  
 65) isom. 3-Methylhexahydrophenylmalonsäure. Sm. 121—122° u. Zers. (B. 34, 3886 C. 1902 [1] 110).  
 66)  $\gamma$ -Lakton d.  $\epsilon$ -Dioxy- $\beta$ -Keto- $\gamma$ -Methylhexan- $\gamma$ -Aethyläther- $\gamma$ -Carbonsäure. Sd. 202°<sub>25</sub> (B. 34, 1982).  
 67)  $\alpha$ -Lakton d.  $\alpha$ -Oxy- $\beta$ -Dimethylbutan- $\beta$ -Dicarbonsäure- $\beta$ -Aethyl-ester. Sm. 34,5° (B. 35, 2942 C. 1902 [2] 1035).  
 68) Dioxycamphenonlakton. Sm. 128° (Bl. [3] 27, 405 C. 1902 [1] 1335).  
 69) Methylester d.  $\beta$ -Isovaleroxylpropen- $\alpha$ -Carbonsäure (M. d. O-Isovalerylacetessigsäure). Sd. 113—114°<sub>11</sub> (C. r. 133, 821 C. 1902 [1] 28).  
 70) Methylester d.  $\delta$ -Diketo- $\beta$ -Methylheptan- $\epsilon$ -Carbonsäure (M. d. C-Isovalerylacetessigsäure). Sd. 107—108°<sub>11</sub>. Cu (C. r. 133, 821 C. 1902 [1] 28).  
 71) Aethylester d.  $\beta$ -Butyroxylpropen- $\alpha$ -Carbonsäure (Ae. d. O-Butyrylacetessigsäure). Sd. 112—113°<sub>10</sub> (C. r. 133, 821 C. 1902 [1] 28; Bl. [3] 27, 1051 C. 1902 [2] 1411).  
 72) Aethylester d.  $\beta$ -Diketoheptan- $\gamma$ -Carbonsäure (Ae. d. C-Butyrylacetessigsäure). Sd. 112°<sub>16</sub>. Cu (C. r. 133, 820 C. 1902 [1] 28; Bl. [3] 27, 1049 C. 1902 [2] 1410).  
 73) Aethylester d.  $\gamma$ -Acetyl- $\delta$ -Ketopentan- $\alpha$ -Carbonsäure. Sd. 154 bis 155°<sub>16</sub> (C. 1902 [2] 346; C. r. 134, 181 C. 1902 [1] 457).  
 74) Aethylester d.  $\gamma$ -Acetyl- $\delta$ -Ketopentan- $\beta$ -Carbonsäure. Sd. 149 bis 151°<sub>33</sub> (C. r. 134, 179 C. 1902 [1] 457).  
 75)  $\beta$ -Aethylester d.  $\gamma$ -Methyl- $\beta$ -Penten- $\alpha$ - $\beta$ -Dicarbonsäure. Sd. 171 bis 177°<sub>15</sub>. Ba (A. 321, 126 C. 1902 [1] 981).  
 76) Aethylester d. Homopilopinsäure. Sd. 210°<sub>10</sub> (Soc. 79, 1338 C. 1902 [1] 50).  
 $C_{10}H_{16}O_5$  28) Aldehyd d.  $\beta$ -Diacetoxy- $\beta$ -Methylbutan- $\delta$ -Carbonsäure. Sd. 140°<sub>16</sub> (M. 22, 531).  
 $C_{10}H_{16}Cl_2$  \*1)  $\alpha$ -Dichlordihydrocamphen. Sm. 160—163° (A. 314, 385).  
 6)  $\gamma$ -Dichlordihydrocamphen. Sm. 187—188° (A. 314, 386).  
 $C_{10}H_{16}Br_4$  12) 1, 2-Dibrom-4-( $\alpha$ - $\beta$ -Dibromisopropyl)-1-Methylhexahydrobenzol. Sm. 123° (A. 324, 83 C. 1902 [2] 1201).  
 $C_{10}H_{16}S_4$  1) bim.  $\beta$ -Dithiocarbonylpentan. Sm. 162—163,5° (C. r. 133, 48).  
 $C_{10}H_{17}N$  \*1) Fenchonimin. Sd. 83°<sub>15</sub> HCl, Pikrat (B. 34, 3777 C. 1902 [1] 43).  
 19) 1-Amidocamphen. Sm. 46°; Sd. 191—192°<sub>758</sub>. (2HCl, PtCl<sub>5</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat (Soc. 79, 650).  
 20) Anhydrolupinin. Sd. 216,5—217,5°. (2HCl, PtCl<sub>5</sub>), (HCl, AuCl<sub>3</sub>) (B. 35, 1915 C. 1902 [2] 132).  
 21) Nitril d.  $\zeta$ -Methyl- $\beta$ -Hepten- $\epsilon$ -Methylcarbonsäure. Sd. 90—100°<sub>12</sub> (A. 323, 332 C. 1902 [2] 1112).  
 22) Nitril d. Dihydrofencholensäure. Sd. 98—104°<sub>23</sub> (B. 34, 3779 C. 1902 [1] 43).  
 $C_{10}H_{17}Cl$  \*4) Bornylchlorid (Soc. 81, 316 C. 1902 [1] 969).  
 $C_{10}H_{17}Br_3$  \*2) 1, 2-Dibrom-4-( $\alpha$ -Bromisopropyl)-1-Methylhexahydrobenzol. Fl. 324, 84 C. 1902 [2] 1201).  
 3) 1-Brom-1-Methyl-4-( $\alpha$ - $\beta$ -Dibromisopropyl)hexahydrobenzol (Terpineoltribromid). Sm. 65° (67°) (C. 1902 [1] 1294; A. 324, 82 C. 1902 [2] 1201).  
 $C_{10}H_{17}J$  \*2) 1-Pinenhydrojodid (1-Bornyljodid). Sm. -3°; Sd. 155,5—157° (A. 316, 238).  
 5) d-Bornyljodid. Sm. -3°; Sd. 120—122°<sub>16</sub> (A. 316, 234; B. 32, 2317).  
 $C_{10}H_{18}O$  \*2) d-Borneol. Kobalticyanhydrat (B. 34, 2691; Soc. 81, 309 C. 1902 [1] 969).  
 \*3) l-Borneol. Sm. 175° (Soc. 81, 63 C. 1902 [1] 120; C. r. 134, 609 C. 1902 [1] 872).  
 \*9) Cineol. H<sub>3</sub>PO<sub>4</sub>, Ferrocyanhydrat +  $\frac{1}{2}$ H<sub>2</sub>O, Ferriocyanhydrat + 3H<sub>2</sub>O (B. 34, 2689; B. 35, 1243 C. 1902 [1] 1107).  
 \*10) Coriandrol (d-Linalool) (Soc. 81, 63 C. 1902 [1] 120).

- C<sub>10</sub>H<sub>16</sub>O**
- \*22 Geraniol (*Soc.* 81, 66 *C.* 1902 [1] 120).
  - \*28 l-Linalool (*Bl.* [3] 25, 828; *J. pr.* [2] 66, 53 *C.* 1902 [2] 520).
  - \*30  $\alpha$ -Menthon (*Bl.* [3] 27, 192 *C.* 1902 [1] 933).
  - \*32 l-Menthon. *Sd.* 208,5—209,5<sup>760</sup> (*J. pr.* [2] 63, 54).
  - \*33 i-Menthon (3-Keto-2- oder 4-Isopropyl-1-Methylhexahydrobenzol). *Sd.* 204—206° (*B.* 34, 3797 *C.* 1902 [1] 26).
  - \*42 Terpeneol. *Sm.* 35—36°; *Sd.* 218,8—219,4° (*B.* 35, 2149 *C.* 1902 [2] 279).
  - \*44 d-Terpeneol (*C.* 1901 [1] 832; *Bl.* [3] 25, 650).
  - \*45 l-Terpeneol (*C.* 1901 [1] 832; *Soc.* 81, 65 *C.* 1902 [1] 120).
  - \*64 Thujamenthon. *Sd.* 211—213° (*A.* 323, 351 *C.* 1902 [2] 1205).
  - \*70 Aldehyd d.  $\beta$ - $\zeta$ -Dimethyl- $\gamma$ -Hepten- $\gamma$ -Carbonsäure (*B.* 34, 2124).
  - \*75 Isofenchylalkohol (*A.* 315, 282).
  - 81  $\beta$ -[4-Oxy-4-Methylhexahydrophenyl]propen (*A*<sup>89</sup>-Terpeneol). *Sm.* 32 bis 33°; *Sd.* 209—210<sup>752</sup> (*B.* 35, 2149 *C.* 1902 [2] 279).
  - 82 4-Keto-3-Isobutyl-1-Methyl-R-Pentamethylen. *Sd.* 196—197° (*A.* 317, 85).
  - 83  $\alpha$ -Dihydrocarveol. *Sd.* 222,5—223<sup>740</sup> (*B.* 35, 2480 *C.* 1902 [2] 442).
  - 84  $\beta$ -Dihydrocarveol. *Sd.* 120<sup>920</sup> (*B.* 35, 2481 *C.* 1902 [2] 442).
  - 85 Myrcenol. *Sd.* 99—101<sup>10</sup> (*Bl.* [3] 25, 688).
  - 86 isom. i-Terpeneol. *Sd.* 209—210<sup>752</sup> (*C.* 1901 [1] 1008).
  - 87 Aldehyd d. 1,1,3-Trimethylhexahydrobenzol-6-Carbonsäure. *Fl.* (*C.* 1901 [2] 248).
- C<sub>10</sub>H<sub>18</sub>O<sub>2</sub>**
- \*43  $\zeta$ -Methyl- $\beta$ -Hepten- $\epsilon$ -Methylcarbonsäure (*A.* 323, 325 *C.* 1902 [2] 1111).
  - \*46 Lakton d.  $\epsilon$ -Oxy- $\beta$ -Isopropylhexan- $\alpha$ -Carbonsäure. *Sd.* 152—154<sup>90</sup> (*A.* 323, 331 *C.* 1902 [2] 1111).
  - 48 Campherglykol. *Sm.* 230—231° (*B.* 35, 3823 *C.* 1902 [2] 1460).
  - 49  $\zeta$ - $\theta$ -Diketo- $\beta$ -Methylnonan (Acetyl-methylheptanon). *Sd.* 117—119<sup>920</sup>. *Na, Cu* (*Bl.* [3] 27, 64 *C.* 1902 [1] 566).
  - 50  $\delta$ -Diketo- $\beta$ - $\eta$ -Dimethylloktan. *Fl.* (*J. pr.* [2] 63, 368; *G.* 31 [1] 462).
  - 51 Dihydrofencholensäure. *Sd.* 145—146<sup>13</sup>. *Ag* (*B.* 34, 3780 *C.* 1902 [1] 43).
  - 52  $\alpha$ -Mankopalolsäure. *Sm.* 85—90° (*Ar.* 240, 214 *C.* 1902 [1] 1224).
  - 53  $\beta$ -Mankopalolsäure. *Sm.* 83—88° (*Ar.* 240, 214 *C.* 1902 [1] 1224).
  - 54 Lakton d.  $\epsilon$ -Oxy- $\beta$ - $\epsilon$ -Dimethylheptan- $\eta$ -Carbonsäure. *Sd.* 133—134<sup>15</sup> (*C. r.* 135, 629 *C.* 1902 [2] 1359).
  - 55 Lakton d.  $\epsilon$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure? *Sd.* 241 bis 243° (*C.* 1901 [2] 30).
  - 56 Aethylester d. cis-cis-1,3-Dimethyl-R-Pentamethylen-2-Carbonsäure. *Sd.* 187—188° (*B.* 34, 2577).
  - 57 Aethylester d. cis-trans-1,3-Dimethyl-R-Pentamethylen-2-Carbonsäure. *Sd.* 190° (*B.* 34, 2578).
- C<sub>10</sub>H<sub>18</sub>O<sub>3</sub>**
- \*8)  $\epsilon$ -Keto- $\beta$ -Isopropylhexan- $\alpha$ -Carbonsäure. *Sm.* 37—38° (*A.* 323, 330 *C.* 1902 [2] 1111).
  - \*11) Säure (aus d. isom. Campholid). *Sm.* 178—179° (*Soc.* 81, 22).
  - \*13) Anhydrid d. Isovaleriansäure. *Sd.* 203—208° (*B.* 34, 179, 2073).
  - \*43) Thujamenthoketonsäure. *Sd.* 150—170<sup>11</sup>. *Ag* (*A.* 323, 357 *C.* 1902 [2] 1206).
  - 51  $\beta$ -Oxy- $\zeta$ - $\theta$ -Diketo- $\beta$ -Methylnonan. *Sd.* 153—154<sup>12</sup> (*Bl.* [3] 27, 67 *C.* 1902 [1] 566).
  - 52 5-Oxy-1,1,3-Trimethylhexahydrobenzol-4-Carbonsäure (Cyklogeraniolanoxycarbonsäure). *Sm.* 180°; *Sd.* 203—205<sup>10</sup> (*D.R.P.* 136 873 *C.* 1902 [2] 1372).
  - 53  $\delta$ -Oxydihydrofencholensäure. *Sm.* 113—114° (*B.* 34, 3783 *C.* 1902 [1] 43).
  - 54 Oxysäure (aus d. Ketonsäure C<sub>10</sub>H<sub>16</sub>O<sub>3</sub> aus Campherchinon). *Sm.* 133 bis 134° (*B.* 35, 3833 *C.* 1902 [2] 1461).
  - 55  $\alpha$ -Keto- $\beta$ -Methylloktan- $\alpha$ -Carbonsäure. *Sm.* 88—89° (*C. r.* 135, 182 *C.* 1902 [2] 575).
  - 56  $\zeta$ -Keto- $\beta$ - $\epsilon$ -Dimethylheptan- $\alpha$ -Carbonsäure. *Sd.* 181—182<sup>12</sup>. *Ag* (*Bl.* [3] 25, 199).
  - 57 Dialdehyd d.  $\zeta$ -Oxy- $\beta$ -Methylheptan- $\alpha$ - $\zeta$ -Dicarbonsäure. *Sd.* 138 bis 140<sup>10</sup> (*B.* 34, 2990).



- $C_{10}H_{18}O_3$  58) Aethylester d.  $\delta$ -Oxy- $\beta$ -Hepten- $\epsilon$ -Carbonsäure. Sd. 128—130°<sub>15</sub> (B. 35, 3638 C. 1902 [2] 1408).
- 59) Aethylester d.  $\delta$ -Oxy- $\epsilon$ -Methyl- $\beta$ -Hexen- $\epsilon$ -Carbonsäure. Sd. 118 bis 120°<sub>17</sub> (B. 35, 3638 C. 1902 [2] 1408).
- 60) Aethylester d.  $\beta$ -Ketoheptan- $\alpha$ -Carbonsäure. Sd. 126—129°<sub>19</sub>. Na, Cu (C. 1901 [1] 1317; D.R.P. 132802 C. 1902 [2] 169).
- 61) Aethylester d.  $\gamma$ -Keto- $\beta$ -Methylhexan- $\beta$ -Carbonsäure (Ae. d.  $\alpha$ -Butyrylisobuttersäure). Sd. 108—110°<sub>26</sub> (C. 1901 [1] 724).
- 62) Aethylester d.  $\delta$ -Keto- $\beta$ -Methylhexan- $\gamma$ -Carbonsäure (Ae. d. Isopropylpropionyllessigsäure). Sd. 108—109°<sub>21</sub> (C. 1901 [1] 724).
- 63) Aethylester d. 3-Oxy-1-Methyl- $\beta$ -Pentamethylen-3-Methylcarbonsäure. Sd. 113—115°<sub>11</sub> (C. 1902 [1] 1222).
- 64) Isobutylester d.  $\gamma$ -Ketopentan- $\beta$ -Carbonsäure (I. d.  $\alpha$ -Propionylpropionsäure). Sd. 99—100° (Bl. [3] 27, 386 C. 1902 [1] 1317).
- $C_{10}H_{18}O_4$  \*21)  $\beta$ -Methylheptan- $\gamma$ - $\zeta$ -Dicarbonsäure (Dihydrocamphersäure). Sm. 105° (C. r. 134, 1438 C. 1902 [2] 280).
- \*25) Dimethylester d. Hexan- $\alpha$ - $\zeta$ -Dicarbonsäure. Sd. 268° (M. 22, 421).
- \*35) Diäthylester d. fum. Butan- $\beta$ - $\gamma$ -Dicarbonsäure. Sd. 219—220° (Bl. [3] 27, 15 C. 1902 [1] 409).
- \*48) Diacetat d.  $\beta$ -Dioxyhexan. Sd. 230° (B. 35, 1336 C. 1902 [1] 1047).
- 67)  $\beta$ -Methylhexan- $\alpha$ -Carbonsäure- $\beta$ -Methylcarbonsäure. Sm. 64—65°. Zn, Ag<sub>2</sub> (C. 1901 [1] 822).
- 68)  $\beta$ -Aethylpentan- $\alpha$ -Carbonsäure- $\beta$ -Methylcarbonsäure. Sm. 71—72° (C. 1901 [1] 822).
- 69) Diacetat d.  $\beta$ -Dioxy- $\beta$ -Methylpentan. Sd. 95°<sub>12</sub> (M. 22, 1071 C. 1902 [1] 456).
- $C_{10}H_{18}O_5$  21) Diacetat d.  $\beta$ - $\gamma$ - $\epsilon$ -Trioxy- $\beta$ -Methylpentan. Sd. 162—164°<sub>16</sub> (M. 22, 534).
- $C_{10}H_{18}O_8$  8) Diäthylester d. d- $\alpha$ - $\beta$ -Dioxyäthandimethyläther- $\alpha$ - $\beta$ -Dicarbonsäure. Fl. (Soc. 79, 958).
- $C_{10}H_{18}O_9$  3) Xylan (H. 34, 167, 181 C. 1902 [1] 301, 302).
- $C_{10}H_{18}Cl_2$  \*5) Dipentendihydrochlorid (Soc. 81, 316 C. 1902 [1] 969).
- $C_{10}H_{18}Br_4$  \*4) Tetrabromdihydromyrcen. Fl. (B. 34, 3127).
- $C_{10}H_{19}N$  \*4)  $\alpha$ -Camphylamin. (2HCl, TiCl<sub>3</sub>) (B. 35, 1114 C. 1902 [1] 937; Soc. 81, 312 C. 1902 [1] 969).
- \*6) Bornylamin (C. 1901 [1] 1002; B. 35, 1516 C. 1902 [1] 1207).
- \*16) Thujonamin (B. 34, 2278).
- 25) Camphidin. Sm. 186° (188°); Sd. 209°<sub>755</sub>. HCl, HNO<sub>3</sub>, Pikrat (B. 34, 3283; C. 1901 [2] 1286).
- 26) Nitril d. Caprinsäure. Sd. 235—237° (EHESTÄDT, Dissert. Freiburg i. B. 1886). — \*I, 807.
- $C_{10}H_{19}Cl$  \*4) Menthylchlorid (C. 1901 [2] 347; A. 318, 328).
- 7) Chlordekanaphten. Sd. 105—110°<sub>50</sub> (Am. 25, 292).
- $C_{10}H_{20}O$  \*3) l-Citronellol (Rhodinol) (Bl. [3] 25, 955 C. 1902 [1] 56).
- \*6) Menthol. Sd. 215—216°<sub>763</sub> (J. pr. [2] 63, 62; Bl. [3] 27, 187 C. 1902 [1] 933; Soc. 81, 309 C. 1902 [1] 969).
- \*13) Tetrahydroisocampher (G. 31, [2] 287).
- 44) 3-Oxy-1-Methyl-3-Propylhexahydrobenzol. Sd. 94—96°<sub>18</sub> (B. 34, 2881).
- 45) 3-Oxy-1-Methyl-3-Isopropylhexahydrobenzol. Sd. 186—188° (B. 34, 2881).
- 46)  $\zeta$ -Keto- $\beta$ -Methylnonan (Propylisoamylketon). Sd. 176—178° (C. r. 133, 1218 C. 1902 [1] 299).
- $C_{10}H_{20}O_2$  \*4) trans-Terpin. Sm. 156° (C. 1902 [1] 21; B. 35, 3179 C. 1902 [2] 1203).
- \*12) Aldehyd d.  $\delta$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. (Valeraldol). Sd. 120°<sub>18</sub> (M. 22, 547 Ann.).
- \*41)  $\beta$ - $\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sd. 135—136°<sub>13</sub> (A. 318, 159).
- 48) cis-5-Oxy-6-Oxymethyl-1,1,3-Trimethylhexahydrobenzol. Kry-stalle; Sd. 170°<sub>17</sub> (C. 1901 [2] 796).
- 49) trans-5-Oxy-6-Oxymethyl-1,1,3-Trimethylhexahydrobenzol. Sm. 103° (C. 1901 [2] 796).
- 50) Glykol (aus Diosphenol). Sm. 92° (J. pr. [2] 63, 64).
- 51) isom. Glykol (aus Diosphenol). Sd. 146—149°<sub>16</sub> (J. pr. [2] 63, 67).
- 52) Nonan- $\beta$ -Carbonsäure. Sd. 261—265° (C. r. 135, 174 C. 1902 [2] 567).



- C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>** 53) Formiat d.  $\delta$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan (F. d. Diisobutylcarbinol). Sd. 173—175<sup>0</sup><sub>750</sub> (C. 1901 [1] 612).  
 54) Dimethylisoamylcarbinolester d. Essigsäure. Sd. 171—173<sup>0</sup><sub>745</sub> (C. 1901 [2] 623).
- C<sub>10</sub>H<sub>20</sub>O<sub>3</sub>** \*6) isom.  $\delta$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sm. 120—121<sup>0</sup>. Na, Ba + Ba(OH)<sub>2</sub> (C. 1901 [2] 30).  
 16) 1-Oxy-1-Methyl-4-[ $\alpha$ - $\beta$ -Dioxyisopropyl]hexahydrobenzol. Sm. 116 bis 117<sup>0</sup> (118—118,5<sup>0</sup>) (C. 1902 [1] 1294; B. 35, 2150 C. 1902 [2] 279).  
 17)  $\epsilon$ -Oxy- $\beta$ - $\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure? Ba (C. 1901 [2] 30).  
 18) Aldehyd d.  $\zeta$ - $\eta$ -Dioxy- $\beta$ - $\zeta$ -Dimethylheptan- $\alpha$ -Carbonsäure. Sd. 158 bis 162<sup>0</sup><sub>22—24</sub> (B. 34, 2988).  
 19) Äthylcarbonat d.  $\delta$ -Oxyheptan. Sd. 202—205<sup>0</sup> (C. 1901 [2] 249).  
 20) Äthylcarbonat d.  $\beta$ -Oxy- $\gamma$ -Äthylpentan. Sd. 195—196<sup>0</sup> (C. 1901 [2] 249).
- C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>** 13) Tetramethyläther d. 1,1,4,4-Tetraoxyhexahydrobenzol. Sm. 80—81<sup>0</sup> (B. 34, 1344).  
 C 50,8 — H 8,5 — O 40,7 — M. G. 236.
- C<sub>10</sub>H<sub>20</sub>O<sub>6</sub>** 1) Trimethyläther d. Methylglykosid. Sd. 155—157<sup>0</sup><sub>13</sub> (C. 1902 [2] 1248).
- C<sub>10</sub>H<sub>20</sub>N<sub>2</sub>** \*2) Diamidophellandren. Sd. 209—214<sup>0</sup> (C. 1902 [1] 1295).  
 13) isom. Diamidophellandren. Sd. 260<sup>0</sup> u. Zers. (2HCl, PtCl<sub>4</sub>) (A. 324, 279 C. 1902 [2] 1254).  
 14) isom. Diamidophellandren. Sd. 251—255<sup>0</sup> (132—134<sup>0</sup><sub>17,3</sub>). HCl, (2HCl, PtCl<sub>4</sub>) (A. 324, 271 C. 1902 [2] 1254).  
 15) 1-Diamidophellandren. Sd. 250—253<sup>0</sup>. HCl, (2HCl, PtCl<sub>4</sub>) (C. 1902 [1] 1295).
- C<sub>10</sub>H<sub>21</sub>N** \*14) 1-Menthylamin (C. 1902 [2] 1238).  
 20) 6-Amido-3-Isopropyl-1-Methylhexahydrobenzol. Sd. 201<sup>0</sup> (G. 31 [2] 287).  
 21) Thujamenthylamin. Sd. 198—200<sup>0</sup> (A. 323, 354 C. 1902 [2] 1205).  
 22) 4-Methyl-7-Isopropyl-R-Hexamethylenimin. Sd. 200—205<sup>0</sup>. HCl, (2HCl, PtCl<sub>4</sub>) (A. 324, 301 C. 1902 [2] 1507).  
 23) 1-Äthyl-2-Propylhexahydropyridin. Sd. 187—188<sup>0</sup>. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, Pikrat (B. 34, 2422).  
 24) Base (aus d.  $\alpha$ -Jodmethylat d. ?-Tetramethylhexahydropyridin). Sd. 167 bis 169<sup>0</sup> (A. 319, 86).  
 25) Base (aus d.  $\beta$ -Jodmethylat d. ?-Tetramethylhexahydropyridin). Sd. 171 bis 173<sup>0</sup> (A. 319, 86).  
 26) Base (aus Thujamentonisoixin). Sd. 200—203<sup>0</sup>. (2HCl, PtCl<sub>4</sub>) (A. 324, 289 C. 1902 [2] 1506).  
 27) Base (aus d. Verb. C<sub>20</sub>H<sub>35</sub>N<sub>2</sub>Cl). Fl. HCl (A. 324, 305 C. 1902 [2] 1507).
- C<sub>10</sub>H<sub>22</sub>O** \*5)  $\gamma$ -Oxymethyl- $\beta$ - $\zeta$ -Dimethylheptan. Sd. 102—103<sup>0</sup><sub>14</sub> (A. 318, 157).  
 \*13)  $\eta$ -Oxy- $\beta$ - $\epsilon$ -Trimethylheptan (C. 1902 [2] 886).  
 18)  $\alpha$ -Oxy- $\beta$ -Methylnonan. Sd. 221—223<sup>0</sup> (C. r. 135, 174 C. 1902 [2] 567).  
 19)  $\beta$ -Oxy- $\beta$ -Methylnonan. Sd. 96—98<sup>0</sup><sub>13,5</sub> (B. 35, 3589 C. 1902 [2] 1357).  
 20)  $\gamma$ -Oxy- $\gamma$ -Äthylloktan (Diäthylamylcarbinol). Sd. 199<sup>0</sup> (C. 1901 [1] 725).  
 21)  $\delta$ -Oxy- $\delta$ -Propylheptan (Tripropylcarbinol). Sd. 193—195<sup>0</sup><sub>737</sub> (C. 1902 [1] 1271).  
 C 54,0 — H 10,0 — O 36,0 — M. G. 222.
- C<sub>10</sub>H<sub>22</sub>O<sub>5</sub>** 1)  $\alpha\beta\delta\zeta\eta$ -Pentaoxy- $\delta$ -Propylheptan. Fl. (C. 1901 [1] 998; J. pr. [2] 65, 46).
- C<sub>10</sub>H<sub>22</sub>N<sub>2</sub>** \*5) 1-Menthylhydrazin. Sd. 240—242<sup>0</sup><sub>61</sub> (J. pr. [2] 64, 120).  
 6) 1-[ $\epsilon$ -Amidoamyl]hexahydropyridin ( $\epsilon$ -Piperidoamylamin). Sd. 238 bis 239<sup>0</sup><sub>758</sub>. (2HCl, PtCl<sub>4</sub>) (B. 35, 1370 C. 1902 [1] 1090).
- C<sub>10</sub>H<sub>22</sub>S** \*1) Diisoamylsulfid (C. 1901 [1] 367).

- C<sub>10</sub>HN<sub>2</sub>Cl<sub>11</sub>** \*1) Verbindung (aus Pyridin) (Soc. 79, 902).
- C<sub>10</sub>H<sub>4</sub>OBr<sub>10</sub>** 1) Dekabromthymol. Sm. 71<sup>0</sup> (C. 1902 [2] 75).
- C<sub>10</sub>H<sub>4</sub>O<sub>6</sub>N<sub>2</sub>** 2) 6,6'-Dioxy-2,5,2',5'-Tetraketo-2,5,2',5'-Tetrahydro-3,3'-Bipyridyl. (Soc. 75, 516). — \*I, 790.
- C<sub>10</sub>H<sub>5</sub>O<sub>2</sub>Br<sub>5</sub>** 2) Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\beta$ -Bromäthenyl]benzol. Sm. 172<sup>0</sup> (A. 322, 200 C. 1902 [2] 267).
- C<sub>10</sub>H<sub>5</sub>O<sub>2</sub>Br<sub>7</sub>** 2) Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\alpha\beta\beta$ -Tribromäthyl]benzol. Sm. 129—130<sup>0</sup> (A. 322 211 C. 1902 [2] 268).

- $C_{10}H_5OCl$  4) Anhydrid d.  $\alpha$ -Chlor- $\beta$ -Oxymaleinphenyläthersäure. Sm. 97°. — \*II, 366.
- $C_{10}H_5O_3Br$  1) 8-Brom-7-Oxy-1,2-Benzpyron-4-Carbonsäure. Sm. 260° (B. 34, 385).
- $C_{10}H_5O_6N_3$  \*4) 1,3,8-Trinitronaphtalin. Sm. 218° (C. 1901 [1] 347).
- $C_{10}H_5O_3N_3$  \*1) 2,4,5-Trinitro-1-Oxynaphtalin. Sm. 190° u. Zers. (B. 35, 2808 C. 1902 [2] 1119).
- $C_{10}H_6ON_2$  6) Nitril d.  $\alpha$ -Cyan- $\beta$ -[3-Oxyphenyl]akrylsäure. Sm. 148° (Bl. [3] 25, 594).
- 7) Nitril d.  $\alpha$ -Cyan- $\beta$ -[4-Oxyphenyl]akrylsäure. Fl. (Bl. [3] 25, 594).
- $C_{10}H_5OBr_4$  1) 1,3,4,6-Tetrabrom-2,5-Dimethylbenzfuran. Sm. 177—178° (B. 34, 49).
- $C_{10}H_6O_3N_2$  5) Nitril d.  $\alpha$ -[2,4-Dioxyphenyl]äthen- $\beta\beta$ -Dicarbonsäure. Sm. noch nicht bei 300° (B. 35, 1320 C. 1902 [1] 1055).
- $C_{10}H_6O_3N_6$  \*1) 3,4-Di[4-Pyrimidyl]-1,2,3,6-Dioxiazin (B. 35, 1570 C. 1902 [1] 1235).
- $C_{10}H_6O_3Br_4$  2) Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta$ -Bromäthenyl]benzol. Sm. 155° (A. 322, 199 C. 1902 [2] 267).
- $C_{10}H_6O_3Br_6$  1) Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\alpha\beta\beta$ -Tribromäthyl]benzol. Sm. 116 bis 117° (A. 322, 208 C. 1902 [2] 268).
- $C_{10}H_6O_3N_2$  2) 7,8-Anhydrid d. 8-Diazo-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 173 bis 175° (B. 34, 668).
- $C_{10}H_6O_3Br_6$  1)  $\alpha$ -Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]-benzol. Sm. 177—178° (A. 322, 210 C. 1902 [2] 268).
- $C_{10}H_6O_3N_2$  \*7)  $\alpha$ -Cyan- $\beta$ -[3-Nitrophenyl]akrylsäure. Sm. 173—175°.  $NH_4$  (G. 31 [1] 274).
- $C_{10}H_6O_6N_2$  \*2) 1,6-Dinitro-2-Oxynaphtalin. Sm. 191° (Soc. 81, 1203 C. 1902 [2] 893).
- \*5) 4,5-Dinitro-1-Oxynaphtalin. Sm. 208° u. Zers. (B. 35, 2807 C. 1902 [2] 1118).
- \*6) 4,8-Dinitro-1-Oxynaphtalin. Sm. 235° u. Zers. (B. 35, 2810 C. 1902 [2] 1119).
- $C_{10}H_8O_7N_4$  C 40,8 — H 2,0 — O 38,1 — N 19,0 — M. G. 294.
- 1) 5,6,8-Trinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 221° u. Zers. (J. pr. [2] 65, 300 C. 1902 [1] 1233).
- 2) 6,8,9-Trinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 208—210° (J. pr. [2] 64, 96).
- 3) 7,8,9-Trinitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 249° (J. pr. [2] 64, 98).
- $C_{10}H_8O_3N_2$  C 42,5 — H 2,1 — O 45,4 — N 9,9 — M. G. 282.
- 1)  $\alpha$ -[2,4-Dinitrophenyl]äthen- $\beta\beta$ -Dicarbonsäure +  $H_2O$ . Sm. 49° (167° wasserfrei). Ba +  $H_2O$  (M. 23, 539 C. 1902 [2] 743).
- $C_{10}H_8O_6S_3$  1) 1,8-Anhydrid d. 1-Oxynaphtalin-3,6,8-Trisulfonsäure.  $Na_2$  (D.R.P. 56058, 67563). — \*II, 513.
- $C_{10}H_8NCl_3$  5) 2-Trichlor-6-Methylchinolin. Sm. 159° (J. pr. [2] 66, 226 C. 1902 [2] 1131).
- $C_{10}H_7ON$  7) Aldehyd d. Chinolin-8-Carbonsäure. Sm. 94—95°. (2HCl,  $PtCl_4$ ) (B. 35, 1274 C. 1902 [1] 1063).
- $C_{10}H_7ON_3$  4) Verbindung +  $H_2O$  (aus d. Verb.  $C_{10}H_7O_2N_3$  aus 2-Nitroso-1-Amidonaphtalin). Zers. bei 222° (C. 1901 [1] 398).
- 5) Verbindung (aus d. Verb.  $C_{10}H_7O_2N_3$  aus 1-Nitroso-2-Amidonaphtalin). Zers. bei 245° (C. 1901 [1] 398).
- $C_{10}H_7OCl_3$  2)  $\delta\delta\delta$ -Trichlor- $\gamma$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Butin. Sd. 183—184°<sub>13</sub> (C. r. 134, 356 C. 1902 [1] 629).
- $C_{10}H_7OBr$  \*3) 1-Brom-2-Oxynaphtalin (C. r. 134, 905 C. 1902 [1] 1296).
- $C_{10}H_7OBr_3$  1) 3,4,6-Tribrom-2,5-Dimethylbenzfuran. Sm. 146—147° u. Zers. (B. 34, 50).
- $C_{10}H_7OBr_5$  1)  $\alpha\alpha$ -Dibrom- $\beta$ -[3,5,6-Tribrom-2-Oxy-4-Methylphenyl]propen. Sm. 102° (B. 34, 47).
- $C_{10}H_7OAs$  2) 2-Naphtylarsenoxyd. Sm. 270° (A. 320, 343 C. 1902 [1] 923).
- $C_{10}H_7O_2N_3$  \*10)  $\beta$ -[2-Cyanphenyl]akrylsäure. Sm. 255° (C. 1901 [1] 69).
- \*13) Chinolin-4-Carbonsäure + 2 $H_2O$  (Cinchoninsäure). Sm. 256° (wasserfrei). Cu (M. 22, 806, 1089; M. 23, 458 C. 1902 [2] 376; J. pr. [2] 66, 263 C. 1902 [2] 1128).
- \*18) Chinolin-8-Carbonsäure. Sm. 183° (B. 35, 1275 C. 1902 [1] 1063).
- $C_{10}H_7O_2N_3$  5) Verbindung (aus 2-Nitroso-1-Amidonaphtalin). Na, K (C. 1901 [1] 397).

- $C_{10}H_7O_2N_3$  6) Verbindung (aus 1-Nitroso-2-Amidonaphtalin).  $K + H_2O$  (C. 1901 [1] 398).
- $C_{10}H_7O_2Br_3$  3) Acetat d. 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Bromäthényl]benzol. Sm. 124° (A. 324, 229 C. 1902 [2] 277).
- 4) Acetat d. 2,3,5-Tribrom-4-Oxy-1-Aethénylbenzol. Sm. 86—87° (A. 322, 198 C. 1902 [2] 267).
- $C_{10}H_7O_2Br_6$  \*2) Acetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Brommethyl]benzol. Sm. 178—179° (A. 320, 228 C. 1902 [1] 656).
- 3) Acetat d. 3,5,6-Tribrom-2-Oxy-1,4-Di[Brommethyl]benzol. Sm. 162° (B. 32, 3594). — \*II, 447.
- 4) Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\alpha\beta$ -Dibromäthyl]benzol. Sm. 143—144° (A. 322, 205 C. 1902 [2] 267).
- $C_{10}H_7O_3N$  \*19) 2-Oxychinolin-3-Carbonsäure. Sm. noch nicht bei 320° (B. 34, 1342).
- \*29) 4-Oxychinolin-3-Carbonsäure (Kynurensäure). Sm. 266° (C. 1901 [2] 730; 1902 [2] 1066; H. 33, 390, 405; B. 34, 2715).
- 34) 8-Amido-2-Oxy-1,4-Naphtochinon. subl. bei 225° u. Zers. (B. 34, 1227).
- 35)  $\alpha$ -Cyan- $\beta$ -[2-Oxyphenyl]akrylsäure. Na (Bl. [3] 25, 596).
- 36) 4-Oxychinolin-2-Carbonsäure. Sm. 290° (H. 33, 404; B. 34, 2712).
- 37) Amid d. 1,4-Benzpyron-2-Carbonsäure. Sm. 252° (Soc. 79, 472).
- $C_{10}H_7O_3Cl$  3) 3-Chlor-7-Oxy-4-Methyl-1,2-Benzpyron +  $\frac{1}{2}H_2O$ . Sm. 236° (wasserfrei) (B. 34, 358).
- $C_{10}H_7O_3Cl_5$  3)  $\alpha\beta\beta\beta$ -Trichloräthylester- $\alpha$ -Chlorbenzylester d. Kohlensäure. Sm. 81,5° (C. 1901 [2] 69).
- $C_{10}H_7O_3Br_6$  2)  $\alpha$ -Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 128—129° (A. 322, 208 C. 1902 [2] 268).
- 3) Acetat d. 2,5,6-Tribrom-4-Keto-1-Oxy-1,3-Di[Brommethyl]-1,4-Dihydrobenzol. Sm. 158° (A. 320, 229 C. 1902 [1] 656).
- 4) Acetat d. 1,2,5,6-Tetrabrom-4-Keto-3-Brommethyl-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 142° (A. 320, 230 C. 1902 [1] 656).
- $C_{10}H_7O_4N$  \*8) Acetat d. 1,2-Phthalylhydroxylamin. Sm. 190° (D.R.P. 135836 C. 1902 [2] 1286).
- 11) Methylester d. 1,3-Diketo-2,3-Dihydro-4-Isobenzazol-2-Carbonsäure (M. d. Pyridandioncarbonsäure). Ba (B. 35, 1412 C. 1902 [1] 1164).
- $C_{10}H_7O_4N_3$  \*6) 1-Phenyl-1,2,3-Triazol-4,5-Dicarbonsäure +  $H_2O$ . Sm. 148° (wasserfrei) (B. 35, 1036 C. 1902 [1] 879).
- 10) 4,5-Dinitro-1-Amidonaphtalin. Sm. 243° (B. 35, 2806 C. 1902 [2] 1118).
- 11) 4,8-Dinitro-1-Amidonaphtalin. Sm. 197° u. Zers. (B. 35, 2810 C. 1902 [2] 1119).
- 12) 2-Dinitro-2-Amidonaphtalin. Sm. 218° (B. 34, 1815).
- 13) 2-Dinitro-2-Amidonaphtalin. Sm. 222° (B. 34, 1817).
- 14) Phenylhydrazoncyanessigsäure-2-Carbonsäure. Ag<sub>2</sub> (J. pr. [2] 63, 13).
- $C_{10}H_7O_4Cl$  2) 3-Chlor-7,8-Dioxy-4-Methyl-1,2-Benzpyron. Sm. 265° (B. 34, 359).
- 3) Mucophenoxychlorsäure. Sm. 91°.  $K + H_2O$ , Ba, Ag. — \*II, 364.
- $C_{10}H_7O_4Cl_3$  4) Monoäthylester d. 3,4,6-Trichlorbenzol-1,2-Dicarbonsäure. Sm. 89 bis 105° (Gemisch) (B. 34, 2110).
- $C_{10}H_7O_4Br$  5) 2, $\beta$ -Lakton d.  $\alpha$ -Brom- $\beta$ -Oxy- $\alpha$ -Phenyläthan-2, $\beta$ -Dicarbonsäure. Sm. 189° (B. 34, 2833).
- $C_{10}H_7O_5N$  \*1) 8-Nitro-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 228—229° (und 255°) (B. 34, 666).
- $C_{10}H_7O_5Cl$  2)  $\alpha$ -Chlor- $\beta$ -Oxymaleinphenyläthersäure. Sm. 115—122°. Ba + 4H<sub>2</sub>O, Ag<sub>2</sub>. — \*II, 366.
- $C_{10}H_7O_6N_3$  3) Nitril d. 3,5-Dinitro-2-Acetoxy-1-Methylbenzol-4-Carbonsäure. Sm. 112,5° (B. 35, 574 C. 1902 [1] 583).
- $C_{10}H_7O_6N$  \*1) Nitrosodipyromekonsäure (C. 1902 [1] 1108).
- $C_{10}H_7O_6N$  \*1) 4-Methylpyridin-2,3,5,6-Tetracarbonsäure + 2H<sub>2</sub>O. Sm. 200° (A. 322, 376 C. 1902 [2] 736).
- $C_{10}H_7O_6P$  1) Diisopyromucylphosphat + H<sub>2</sub>O. Sm. 110—112° (154° wasserfrei) (C. r. 134, 1440 C. 1902 [2] 263).
- $C_{10}H_7NCl_2$  10) 2-Dichlor-6-Methylchinolin. Sm. 80—81°. (2HCl, PtCl<sub>4</sub>) (J. pr. [2] 66, 225 C. 1902 [2] 1131).
- $C_{10}H_7NBr_2$  7) 2-Dibrom-6-Methylchinolin. Sm. 135—136°. (2HCl, PtCl<sub>4</sub>) (B. 35, 228 C. 1902 [2] 1131).

- $C_{10}H_7N_2J_2$  2) *p*-Dijod-6-Methylechinolin. Sm. 135—136° (*J. pr.* [2] 66, 228 *C.* 1902 [2] 1132).
- $C_{10}H_7N_2Cl$  5) 5-Chlor-2-Phenyl-1,3-Diazin. Sm. 96° (*B.* 35, 3168 *C.* 1902 [2] 1216).
- $C_{10}H_7N_2Br$  3) 5-Brom-2-Phenyl-1,3-Diazin. Sm. 104° (*B.* 35, 3167 *C.* 1902 [2] 1216).
- $C_{10}H_7ClHg$  \*1) 1-Naphtylquecksilberchlorid (*B.* 35, 2036 *C.* 1902 [2] 113).
- $C_{10}H_7Cl_2As$  \*1) 1-Naphtyldichlorarsin. Sm. 63° (*A.* 320, 342 *C.* 1902 [1] 923).
- 2) 2-Naphtyldichlorarsin. Sm. 69° (*A.* 320, 342 *C.* 1902 [1] 923).
- $C_{10}H_8ON_2$  20) 2-Oximidomethylchinolin. Sm. 189° (*J. pr.* [2] 66, 264 *C.* 1902 [2] 1128).
- $C_{10}H_8OBr_5$  1) Verbindung (aus Menthon). Sm. 148—149° u. Zers. (*B.* 34, 45).
- $C_{10}H_8O_2N_2$  \*4) 4-Nitro-1-Amidonaphtalin (*C.* 1901 [1] 237).
- \*22) 2,4-Diketo-6-Methyl-1,2,3,4-Tetrahydro-1,3-Diazin (oder 2,6-Dioxy-4-Phenyl-1,3-Diazin?; 4-Phenyluracil). Sm. 267° u. Zers. (*B.* 34, 3763 *C.* 1902 [1] 53; *B.* 34, 4129 *C.* 1902 [1] 267).
- \*37) 1-Phenylpyrazol-4-Carbonsäure. Sm. 219—220° (*A.* 316, 37).
- 50) 4,8-Diamido-1,2-Naphtochinon (*B.* 34, 1227).
- 51) 2,8-Diamido-1,4-Naphtochinon (*B.* 34, 1227).
- 52) 4,5-Diketo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 119°. Hydrat (Sm. 71°) (*B.* 35, 1439 *C.* 1902 [1] 1230).
- 53) 5-Phenylpyrazol-3-Carbonsäure. Sm. 233—234° (*B.* 35, 36 *C.* 1902 [1] 424).
- $C_{10}H_8O_2Br_2$  4) Acetat d. 3,5-Dibrom-4-Oxy-1-Aethenylbenzol. Sm. 76—77° (*A.* 322, 236 *C.* 1902 [2] 278).
- $C_{10}H_8O_2Br_4$  4) Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Aethylbenzol. Sm. 133 bis 134° (*A.* 322, 189 *C.* 1902 [2] 265).
- $C_{10}H_8O_2S_2$  \*2) Naphtalin-1-Thiolsulfonsäure. Salze siehe (*C.* 1901 [1] 956).
- \*3) Naphtalin-2-Thiolsulfonsäure. Salze siehe (*C.* 1901 [1] 956).
- $C_{10}H_8O_2N_2$  \*17) 5-Nitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 166° (*J. pr.* [2] 63, 574).
- 34) *p*-Nitroso-3-Oxy-1-Acetylmindol? Sm. 83° (*D.R.P.* 131400 *C.* 1902 [1] 1344).
- 35) 6-Nitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 222° (*J. pr.* [2] 64, 87, 95).
- 36) 7-Nitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 198—199° (*J. pr.* [2] 64, 88).
- 37) 8-Nitro-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm. 124—125° (*J. pr.* [2] 64, 91).
- 38) 1-Acetyl-2,3-Diketo-1,2,3,4-Tetrahydro-1,4-Benzdiazin? Sm. 184°.  $HCl$ ,  $(2HCl, PtCl_4)$ ,  $2 + HgCl_2$  (*G.* 31 [1] 20).
- 39) Acetat d. 3-Oxy-1-Nitrosoindol. Sm. 83° (*B.* 34, 1857).
- $C_{10}H_8O_3Br_4$  \*3) 1- oder 3-Acetat d. 2,5,6-Tribrom-4-Oxy-3-Brommethyl-1-Oxymethylbenzol. Sm. 152° (*A.* 320, 226 *C.* 1902 [1] 655).
- 4)  $\alpha$ -Acetat d. 2,3,5-Tribrom-4-Oxy-1- $[\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 164—165° (*A.* 322, 205 *C.* 1902 [2] 267).
- 5) 4-Acetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Oxymethylbenzol-1-Methyläther. Sm. 177—178° (*A.* 320, 215 *C.* 1902 [1] 654).
- 6) Acetat d. 2,3,5,6-Tetrabrom-1-Oxy-4-Keto-1-Aethyl-1,4-Dihydrobenzol. Sm. 124° (*B.* 34, 255).
- $C_{10}H_8O_4N_2$  \*6) Harminsäure (*C.* 1901 [1] 958).
- 13) *s*-Di[2-Furanoyl]hydrazin. Sm. 232° (*J. pr.* [2] 65, 31 *C.* 1902 [1] 460).
- 14) Methylester d. 3-Oximido-1-Keto-2,3-Dihydro-4-Isobenzazol-2-Carbonsäure? (Monoxim d. Pyridandioncarbonsäuremethylester (*B.* 35, 1413 *C.* 1902 [1] 1165).
- 15) Methylester d. 4-Oxy-1-Keto-1,2-Dihydro-2,7-Benzdiazin-3-Carbonsäure. Sm. 206—208° u. Zers. (*B.* 35, 1361 *C.* 1902 [1] 1112).
- 16) Aethylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 105° (*C.* 1901 [2] 1159).
- 17) Aethylimid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 111—112° (*C.* 1901 [2] 1159).
- $C_{10}H_8O_4N_4$  \*1) 5-Methyl-1- $[p$ -Nitrophenyl]-1,2,4-Triazol-3-Carbonsäure. Sm. 185° (*J. pr.* [2] 64, 238).
- $C_{10}H_8O_4N_6$  C 43,5 — H 2,9 — O 23,2 — N 30,4 — M. G. 276.
- 1) Anhydroporphyrin. 2HCl (*B.* 34, 1876).



- $C_{10}H_5O_4Cl_2$  \*8) Monoäthylester d. 3,6-Dichlorbenzol-1,2-Dicarbonsäure (*M.* 23, 326 *C.* 1902 [2] 201).
- $C_{10}H_5O_4Br_2$  10)  $\alpha\beta$ -Dibrom- $\beta$ -[3,4-Dioxyphenyl]propion-3,4-Methylenäthersäure. *Sm.* 143—144° u. *Zers.* (*B.* 34, 1470).
- 11) Dimethylester d. 4,5-Dibrombenzol-1,2-Dicarbonsäure. *Sm.* 81—83° (*B.* 34, 2743).
- 12) Monoäthylester d. 4,5-Dibrombenzol-1,2-Dicarbonsäure. *Sm.* 147 bis 149° (*B.* 34, 2743).
- $C_{10}H_5O_4S$  \*8) 2-Oxynaphtalin-6-Sulfonsäure (D.R.P. 134401 *C.* 1902 [2] 868).
- \*10) 2-Oxynaphtalin-8-Sulfonsäure (D.R.P. 134401 *C.* 1902 [2] 868).
- 13) 1-Oxynaphtalin-6-Sulfonsäure (*C.* 1900 [2] 359). — \*II, 511.
- 14) 2-Oxynaphtalin-1-Sulfonsäure.  $Na_2 + C_2H_5O, K_2, Ba$  (*B.* 15, 202, 204, 305; D.R.P. 74688, 93305). — II, 590; \*II, 531.
- $C_{10}H_5O_5S$  15) 2-Oxynaphtalin-4-Sulfonsäure (D.R.P. 78603). — \*II, 531.
- 1) 1,3-Dioxynaphtalin-5-Sulfonsäure (D.R.P. 85241). — \*II, 594.
- 8) 1,3-Dioxynaphtalin-7-Sulfonsäure (D.R.P. 90978). — \*II, 595.
- 9) 1,6-Dioxynaphtalin-3-Sulfonsäure (D.R.P. 131527 *C.* 1902 [1] 1383; D.R.P. 134401 *C.* 1902 [2] 868).
- 10) 1,7-Dioxynaphtalin-4-Sulfonsäure (D.R.P. 81938, 83965). — \*II, 596.
- 11) 1,8-Dioxynaphtalin-3-Sulfonsäure (D.R.P. 82422, 108848). — \*II, 596.
- 12) 1,9-Dioxynaphtalin-2-Sulfonsäure (D.R.P. 68344). — \*II, 599.
- 13) 2,6-Dioxynaphtalin-4-Sulfonsäure (D.R.P. 72222). — \*II, 598.
- 14) 2,9-Dioxynaphtalin-2-Sulfonsäure (D.R.P. 62964). — \*II, 599.
- $C_{10}H_5O_5S_2$  3) 1,2-Dioxynaphtalin-4-Thiosulfonsäure.  $Na, K$  (D.R.P. 71314). — \*II, 626.
- $C_{10}H_5O_6S$  1) 1,3,8-Trioxynaphtalin-6-Sulfonsäure (D.R.P. 78604). — \*II, 627.
- 2) 1,6,7-Trioxynaphtalin-3-Sulfonsäure.  $Ba$  (D.R.P. 110618, 112098; *M.* 23, 529 *C.* 1902 [2] 744). — \*II, 627.
- 3) 9-Trioxynaphtalin-2-Sulfonsäure (D.R.P. 80464, 87583). — \*II, 627.
- $C_{10}H_5O_7S_2$  10) 1-Oxynaphtalin-2,5-Disulfonsäure (D.R.P. 68344; *B.* 30, 55). — \*II, 512.
- 11) 1-Oxynaphtalin-4,6-Disulfonsäure (D.R.P. 41957, 80888). — \*II, 512.
- 12) 1-Oxynaphtalin-4,7-Disulfonsäure (*B.* 30, 1460; D.R.P. 41957, 74744, 80888). — \*II, 512.
- 13) 1-Oxynaphtalin-4,8-Disulfonsäure (*B.* 23, 3092; D.R.P. 40571, 67829). — \*II, 512.
- 14) 1-Oxynaphtalin-5,8-Disulfonsäure (D.R.P. 70857). — \*II, 512.
- 15) 1-Oxynaphtalin-6,8-Disulfonsäure (D.R.P. 82563). — \*II, 513.
- 16) 2-Oxynaphtalin-4,8-Disulfonsäure (D.R.P. 65997). — \*II, 534.
- 17) 2-Oxynaphtalin-5,7-Disulfonsäure (D.R.P. 133401 *C.* 1902 [2] 868).
- $C_{10}H_5O_8S_2$  5) 1,7-Dioxynaphtalin-3,6-Disulfonsäure.  $Na_2, Ba$  (*M.* 23, 527 *C.* 1902 [2] 744).
- 6) 1,8-Dioxynaphtalin-3,6-Disulfonsäure +  $2H_2O$  (Chromotropsäure).  $Ba + 3H_2O, (NaBa + 3H_2O)$  (D.R.P. 67563, 68721, 69170, 75153). — \*II, 597.
- 7) 1,8-Dioxynaphtalin-9-Disulfonsäure (D.R.P. 79029). — \*II, 597.
- 8) isom. 1,8-Dioxynaphtalin-9-Disulfonsäure (D.R.P. 79030). — \*II, 597.
- 9) 2,3-Dioxynaphtalin-6,8-Disulfonsäure.  $Na_2$  (*M.* 23, 527 *C.* 1902 [2] 744).
- 10) 2,7-Dioxynaphtalin-3,6-Disulfonsäure (D.R.P. 75142). — \*II, 598.
- $C_{10}H_5O_{10}S_3$  6) 1-Oxynaphtalin-3,6,8-Trisulfonsäure (D.R.P. 69518, 71495). — \*II, 513.
- $C_{10}H_5O_{12}S_4$  2) Naphtalin-1,3,5,7-Tetrasulfonsäure.  $Na_4$  (D.R.P. 79054, 80464). — \*II, 103.
- 3) Naphtalin-1,3,6,8-Tetrasulfonsäure (D.R.P. 70296). — \*II, 103.
- $C_{10}H_5NCl$  \*3) 8-Chlor-1-Amidonaphtalin. *Sm.* 89° (*B.* 35, 2809 *C.* 1902 [2] 1119).
- 13) 2-Chlor-8-Methylchinolin. *Sm.* 61°; *Sd.* 286°<sub>734</sub>.  $HCl, (2HCl, PtCl_4 + 2H_2O)$  (*B.* 35, 3678 *C.* 1902 [2] 1474).
- $C_{10}H_5NBr$  \*4) 5-Brom-1-Amidonaphtalin. *Sm.* 69° (*B.* 35, 2804 *C.* 1902 [2] 1118).
- 12) 9-Brom-6-Methylchinolin. *Sm.* 84—85°. ( $2HCl, PtCl_4$ ) (*J. pr.* [2] 66, 227 *C.* 1902 [2] 1131).
- $C_{10}H_8NJ$  3) 8-Jodmethylchinolin. *Sm.* 84° (*B.* 35, 1274 *C.* 1902 [1] 1063).
- $C_{10}H_8NJ_3$  1) Jodmethylat d. 5,7-Dijodchinolin. *Sm.* oberh. 250° u. *Zers.* (*B.* 34, 3349).

- $C_{10}H_9N_2S_2$  3) 1,3-Di[Rhodanmethyl]benzol. Sm. 160—161° (*C.* 1902 [1] 1401).
- $C_{10}H_9ON$  \*17) 3-Oxy-2-Methylchinolin. Sm. 260°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O) (*B.* 35, 2556 *C.* 1902 [2] 600).
- \*22) 2-Oxy-4-Methylchinolin. Sm. 223° (*B.* 34, 2717).
- 51) 5-Amido-1-Oxynaphtalin (D.R.P. 49448). — \*II, 507.
- 52) 8-Amido-1-Oxynaphtalin. Sm. 95—97° u. Zers. (D.R.P. 54662, 55404, 62289, 73381 (*M.* 23, 516 *C.* 1902 [2] 743). — \*II, 507.
- 53) 6-Amido-2-Oxynaphtalin. Sm. 190—195° u. Zers. (*A.* 323, 127 *C.* 1902 [2] 800).
- 54) 7-Amido-2-Oxynaphtalin. subl. bei 200° u. Zers. (D.R.P. 47816; D.R.P. 134401 *C.* 1902 [2] 868). — \*II, 525.
- 55) 1-Naphtylhydroxylamin. Sm. 72° (*A.* 317, 381).
- \*56) 2-Phenyl-1,3-Oxazin (4). Sm. 171° (*B.* 34, 1921).
- $C_{10}H_9ON_3$  12) 6-Oxy-2-Methyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 270°. Ag (*B.* 34, 4244 *C.* 1902 [1] 209).
- $C_{10}H_9OCl$  4)  $\gamma$ -Keto- $\alpha$ -[4-Chlorphenyl]- $\alpha$ -Buten. Sm. 50—51° (*J. pr.* [2] 65, 279 *C.* 1902 [1] 1215).
- $C_{10}H_9O_2N$  \*46) 3-Oxy-1-Acetylinдол. Sm. 135° (*B.* 34, 1857; D.R.P. 131400 *C.* 1902 [1] 1344).
- 53) 5-Amido-1,4-Dioxynaphtalin. HCl (*B.* 32, 2878). — \*II, 596.
- 54) 1-Amido-2,3-Dioxynaphtalin. Zers. bei 230° (*M.* 23, 521 *C.* 1902 [2] 744).
- 55) 1-[ $\alpha$ -Oximidoäthyl]benzofuran. Sm. 150° (*B.* 34, 775).
- 56) isom. 3-Oxy-1-Acetylinдол? Sm. 126° (D.R.P. 131400 *C.* 1902 [1] 1344).
- 57) 2,3-Dioxy-4-Methylchinolin. Sm. 245° (*Ar.* 240, 146 *C.* 1902 [1] 819).
- 58) 8-Oxy- $p$ -Oxymethylchinolin. Sm. 146—148° (*B.* 35, 3846 *C.* 1902 [2] 1454).
- 59) Methyläther d. 4-Oxy-1-Keto-1,2-Dihydroisochinolin. Sm. 171° (*B.* 35, 2422 *C.* 1902 [2] 455).
- 60) Acetat d. 3-Oxyindol. Sm. 126° (*B.* 34, 1857).
- 61) Lakton d.  $\beta$ -Phenylamido- $\gamma$ -Oxypropen- $\alpha$ -Carbonsäure (Phenylamidotetrensäure). Sm. 220° (*A.* 315, 156).
- 62) Aethylester d. Phenylisocyanid-2-Carbonsäure (*J. pr.* [2] 64, 78).
- $C_{10}H_9O_2N_3$  \*3) 4-Oximido-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol (*B.* 35, 222 *C.* 1902 [1] 393).
- \*11) 5-Methyl-1-Phenyl-1,2,4-Triazol-3-Carbonsäure. Sm. 177—177,5°. Cu + 1½ H<sub>2</sub>O, Ag + 1½ H<sub>2</sub>O (*J. pr.* [2] 64, 238).
- 23) Monoxim d. 4,5-Diketo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 157° (*B.* 35, 1439 *C.* 1902 [1] 1230).
- 24) 5-Methyl-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 148°. NH<sub>4</sub>, K, Cu (*B.* 35, 1033 *C.* 1902 [1] 878).
- 25) Methylester d. 1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 121° (*B.* 35, 1038 *C.* 1902 [1] 879).
- 26) Methylester d. 1-Phenyl-1,2,3-Triazol-5-Carbonsäure. Sm. 101° (*B.* 35, 1035 *C.* 1902 [1] 879).
- 27) Nitril d. 2,6-Diketo-4-Propyl-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure. NH<sub>4</sub> (*C.* 1902 [2] 700).
- 28) Imid d. 2,3-Dicyan-1-Methyl-1-Aethyl-R-Trimethylen-2,3-Dicarbonsäure. Sm. 220—225° (*C.* 1901 [1] 579).
- 29) Methylimid d. 2,3-Dicyan-1,1-Dimethyl-R-Trimethylen-2,3-Dicarbonsäure. Sm. 241,5° (*C.* 1901 [1] 578).
- $C_{10}H_9O_2Br$  8) Verbindung (aus Bromsafrolbromid). Sd. 185—190°<sub>15</sub> (*B.* 23 [2] 204). — \*II, 585.
- $C_{10}H_9O_2Br_3$  9) 3-Methyläther d. 2,5,6-Tribrom-3,4-Dioxy-1-Allylbenzol. Sm. 74° (*B.* 28, 2085). — \*II, 589.
- 10) Methylenäther d.  $p$ -Brom-3,4-Dioxy-1-[ $\beta\gamma$ -Dibrompropyl]benzol. Sm. 54° (*B.* 23 [2] 204). — \*II, 585.
- 11) Methylester d.  $\beta$ -[2,4,6-Tribromphenyl]propionsäure. Sm. 78° (*B.* 28, 1269). — \*II, 535.
- 12) Acetat d. 2,3,5-Tribrom-4-Oxy-1-Aethylbenzol. Sm. 70° (*A.* 322, 187 *C.* 1902 [2] 265).
- $C_{10}H_9O_2Br_5$  1) 3-Methyläther d. 2,5,6-Tribrom-3,4-Dioxy-1-[ $\beta\gamma$ -Dibrompropyl]benzol (*B.* 28, 2085). — \*II, 586.

- $C_{10}H_9O_3N$  \*10) 8-Amido-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 269—270° (B. 34, 668).  
 \*13) 2,4-Diketo-5-Methyl-3-Phenyltetrahydrooxazol. Sm. 142° (Bl. [3] 27, 449 C. 1902 [2] 34).  
 \*32) Methylester d. 3-Oxyindol-2-Carbonsäure. Sm. 155° (B. 35, 524 C. 1902 [1] 659).  
 \*33) Aethylester d.  $\alpha$ -Cyan- $\beta$ -[2-Furanyl]akrylsäure. Sm. 94° (G. 31 [1] 277; C. 1902 [2] 741).  
 42)  $\delta$ -Nitro- $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Buten ( $\alpha$ -Nitrobenzalacetone). Sm. 87—88° (A. 319, 254 C. 1902 [1] 189).  
 43) 2,4-Diketo-3-Aethyl-3,4-Dihydro-1,3-Benzoxazin. Sm. 107° (B. 35, 3652 C. 1902 [2] 1457).  
 44) 3-Oxyindol-1-Methylcarbonsäure (Indoxyloessigsäure). Sm. 165° u. Zers. (D.R.P. 128 955 C. 1902 [1] 690).  
 $C_{10}H_9O_3N_3$  26) 2-Methoxyphenylhydrazoncyanessigsäure. Sm. 175—176°? (J. pr. [2] 63, 7).  
 27) Acetat d. 5-Oxy-3-Keto-2-Phenyl-2,3-Dihydro-1,2,4-Triazol. Fl. (B. 35, 560 C. 1902 [1] 635).  
 $C_{10}H_9O_3Br$  \*4)  $\gamma$ -Laktone d.  $\beta$ -Brom- $\alpha\gamma$ -Dioxy- $\gamma$ -Phenylbuttersäure. Sm. 137° (A. 319, 201 C. 1902 [1] 107).  
 $C_{10}H_9O_3Br_3$  7)  $\alpha$ -Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 136 bis 137° (A. 322, 202 C. 1902 [2] 267).  
 8) Acetat d. 2,5,6-Tribrom-1-Oxy-4-Keto-1,3-Dimethyl-1,4-Dihydrobenzol. Sm. 129° (B. 34, 256). — \*II, 445.  
 9) 4-Acetat d. 2,3,5-Tribrom-4-Oxy-1-Oxymethylbenzol-1-Methyläther. Sm. 60° (A. 320, 210 C. 1902 [1] 654).  
 $C_{10}H_9O_3As$  2) 2-Naphtylarsinsäure. Sm. 155° (A. 320, 344 C. 1902 [1] 923).  
 $C_{10}H_9O_4N$  38) Verbindung (aus 1,4-Benzpyron-2-Carbonsäure u.  $NH_3$ ) (Soc. 79, 471).  
 $C_{10}H_9O_4Cl$  8) 2-Chlorid d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäurealdehyd-2-Carbonsäure. Sm. 83—84° u. Zers. (M. 22, 783).  
 $C_{10}H_9O_4Br$  9) 5-Brom-2-Acetoxy-1-Methylbenzol-3-Carbonsäure. Sm. 155° (M. 22, 951 C. 1902 [1] 194).  
 10) Aldehyd d. 5-Brom-4-Oxy-1-Acetoxydimethylbenzol-3-Carbonsäure. Sm. 102° (B. 35, 129 C. 1902 [1] 465).  
 $C_{10}H_9O_5N_3$  \*7) 4-Nitrophenylazoacetessigsäure (B. 34, 78).  
 $C_{10}H_9O_6N$  \*7) 2,4-Dimethylpyridin-3,5,6-Tricarbonsäure +  $2H_2O$  (A. 322, 374 C. 1902 [2] 736).  
 25) 5-Nitro-2-Acetoxy-1-Methylbenzol-3-Carbonsäure. Sm. 142° (M. 22, 944 C. 1902 [1] 194).  
 26) 2-Aethylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 157° (C. 1901 [2] 1158).  
 27) Monoäthylester d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 141 bis 150° (C. 1901 [2] 1159).  
 $C_{10}H_9O_6N$  2) Pyrrol-2,4-Dicarbonsäure-3,5-Di[Methylcarbonsäure] +  $H_2O$ . Sm. 220° u. Zers. (wasserfrei) (B. 35, 1557 C. 1902 [1] 1228).  
 $C_{10}H_9N_2Cl$  7) 4-Chlor-1,8-Diamidonaphtalin.  $H_2SO_4$  (C. 1901 [2] 448).  
 8) 2-Chlor- $\beta$ -Amido-8-Methylchinolin. Sm. 148° (B. 35, 3679 C. 1902 [2] 1474).  
 $C_{10}H_9N_2J$  3) 5-Jod-3-Methyl-1-Phenylpyrazol. Fl. (B. 34, 1306).  
 $C_{10}H_{10}ON_2$  \*10) 5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 125° (C. 1901 [1] 1154).  
 \*61) Amid d.  $\alpha$ -Cyan- $\beta$ -Phenylpropionsäure. Sm. 133—133,5° (C. 1902 [2] 700).  
 63) 4,5-Diamido-1-Oxynaphtalin (C. 1900 [1] 411). — \*II, 508.  
 64) 7,8-Diamido-1-Oxynaphtalin (D.R.P. 90212). — \*II, 508.  
 65) 1,7-Diamido-2-Oxynaphtalin. Sm. 220°.  $H_2SO_4$  (B. 33, 1540; C. 1901 [1] 349). — \*II, 526.  
 66) 4-Oxy-3-Methyl-5-Phenylpyrazol. Sm. 188° (B. 35, 3318 C. 1902 [2] 1110).  
 67) Methyläther d. 2-Amido-8-Oxychinolin. Sm. 156°. (HCl,  $AuCl_3$ ) (B. 35, 3681 C. 1902 [2] 1474).  
 68) 4-Keto-2-Aethyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 234°. HCl, (2HCl,  $PtCl_4$ ),  $HNO_3$ ,  $H_2SO_4$ , Pikrat, Oxalat (C. 1901 [2] 890).  
 69) Phenylamid d.  $\alpha$ -Cyanpropionsäure. Sm. 104—105° (C. 1901 [1] 675).

- $C_{10}H_{10}OBr_2$  \*3) Methyläther d.  $\alpha$ -Brom- $\alpha$ -[3-Brom-4-Oxyphenyl]propen. Sm. 62° (C. 1902 [1] 1163).
- $C_{10}H_{10}O_2N_2$  \*23) 3-Oximido-2-Keto-1-Aethyl-2,3-Dihydroindol (Aethylisatoxim) (B. 35, 221 C. 1902 [1] 393).
- 53) 4,8-Diamido-1,7-Dioxynaphtalin (C. 1900 [1] 411). — \*II, 596.
- 54) 1,4-Diamido-2,3-Dioxynaphtalin.  $H_2SO_4$  (M. 23, 524 C. 1902 [2] 744).
- 55) 2,6-Diketo-4-Phenylhexahydro-1,3-Diazin (4-Phenyluracil). Sm. 202 bis 203° (B. 34, 3762 C. 1902 [1] 53).
- 56) 2,4-Diketo-1-Phenyl-3-Methyltetrahydroimidazol. Sm. 185° (J. pr. [2] 66, 235 C. 1902 [2] 1122).
- 57) 2,4-Diketo-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 166—167° (J. pr. [2] 66, 242 C. 1902 [2] 1123).
- 58) Lakton d.  $\beta$ -Phenylhydrazido- $\gamma$ -Oxypropen- $\alpha$ -Carbonsäure (Phenylhydrazontetronsäure). Sm. 128° (A. 315, 156).
- 59) Methylester d. 2-Cyanmethyramidobenzol-1-Carbonsäure. Sm. 108° (106,5°) (J. pr. [2] 63, 399; D.R.P. 129562 C. 1902 [1] 838; B. 35, 1686 C. 1902 [1] 1362; B. 35, 1352).
- $C_{10}H_{10}O_2Br_2$  \*18) Methylester d. Allo- $\alpha$ - $\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 50 bis 53° (B. 34, 3663).
- $C_{10}H_{10}O_2Br_4$  \*1) 3-Methyläther d. 5,9-Dibrom-3,4-Dioxy-1-[ $\beta$ - $\gamma$ -Dibrompropyl]-benzol. Sm. 118—119° (B. 35, 124 C. 1902 [1] 475).
- $C_{10}H_{10}O_2S$  \*4)  $\beta$ -Merkaptoisocrotonphenyläthersäure. Sm. 176° (B. 34, 2660).
- $C_{10}H_{10}O_3N_2$  \*17) 1-Nitroso-1,2,3,4-Tetrahydrochinolin-7-Carbonsäure. Zers. bei 191° (B. 35, 2613 C. 1902 [2] 601).
- \*28) Äthylester d. 5-Cyan-6-Oxy-2-Methylpyridin-3-Carbonsäure. Na, K (G. 31 [1] 171; B. 34, 3693).
- 30) Methyläther d. 2,4-Diketo-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 196—197° (J. pr. [2] 66, 260 C. 1902 [2] 1125).
- 31)  $\alpha$ -Phenylhydrazonäthan- $\alpha$ -Ketocarbonsäure (B. 34, 2739).
- 32) 1-Nitroso-1,2,3,4-Tetrahydrochinolin-6-Carbonsäure. Sm. 181° (B. 35, 2614 C. 1902 [2] 601).
- 33) 1-Nitroso-1,2,3,4-Tetrahydrochinolin-8-Carbonsäure. Zers. bei 124° (B. 35, 2612 C. 1902 [2] 601).
- 34) 2-Nitrophenylamid d. Propen- $\beta$ -Carbonsäure. Fl. (B. 34, 2060).
- $C_{10}H_{10}O_3Cl_2$  \*1)  $\alpha$ - oder  $\beta$ -Dichlorpropylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 50° (B. 10, 1817; 34, 1769).
- 6) Methyläther d. 3,6-Dichlor-5-Oxy-2-Isopropyl-1,4-Benzochinon. Sm. 83—84° (B. 35, 1506 C. 1902 [1] 1211).
- $C_{10}H_{10}O_3Br_2$  9) Methyläther d. 3,6-Dibrom-5-Oxy-2-Isopropyl-1,4-Benzochinon. Sm. 62—63° (B. 34, 1561).
- 10) 3,6-Dibrom-4-Oxy-2,5-Dimethylphenylessigsäure. Sm. 216—218° (B. 34, 4282 C. 1902 [1] 309, 310). — \*II, 934.
- 11) Methylester d.  $\beta$ -[3,5-Dibrom-4-Oxyphenyl]propionsäure. Sm. 55° (A. 322, 226 C. 1902 [2] 277).
- 12) 2-Formiat d. 3,6-Dibrom-5-Oxy-2-Oxymethyl-1,4-Dimethylbenzol. Sm. 150—152° (B. 34, 4291 C. 1902 [1] 311). — \*II, 688.
- 13) Monoacetat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol. Sm. 139—140° (B. 35, 438 C. 1902 [1] 641).
- $C_{10}H_{10}O_4N_2$  \*21)  $\alpha$ -Phenylhydrazonäthan- $\alpha$ - $\beta$ -Dicarbonsäure (Soc. 81, 1140 C. 1902 [2] 189; Soc. 81, 1158 C. 1902 [2] 190, 694).
- 22) 2,3-Dicyan-1-Methyl-1-Aethyl-R-Trimethylen-2,3-Dicarbonsäure.  $Na_2$  (C. 1901 [1] 579).
- $C_{10}H_{10}O_4Cl_2$  4) Methylester d. 5,6-Dichlor-3,4-Dioxybenzoldimethyläther-1-Carbonsäure. Sm. 95—96° (G. 31 [2] 102).
- $C_{10}H_{10}O_5N_2$  16) Methyl- $\beta$ -Nitro-5-Acetylamido-2-Oxyphenylketon. Sm. 170° (B. 34, 126).
- $C_{10}H_{10}O_5Hg_2$  \*1) Diacetat d. Oxyphenyldi[Quecksilberoxydhydrat] (B. 35, 2853 C. 1902 [2] 1037).
- 2) 1,3-Diacetat d. 4-Oxy-1,3-Phenylendiquecksilberoxydhydrat. Sm. 264—265° (C. 1901 [1] 452).
- $C_{10}H_{10}O_6N_2$  \*6) 4,6-Dinitro-1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 230—231° (B. 34, 1827).
- $C_{10}H_{10}NCl$  3) 5-Chlor-1,2-Dimethylindol. Sm. 67° (D.R.P. 128660 C. 1902 [1] 611).

- $C_{10}H_{10}N_2S$  7) 3-Thiocarbonyl-1-Methyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 162°.  
(2HCl,  $PtCl_4 + 2H_2O$ ), Ferrocyanat,  $+ HgCl_2$  (A. 320, 29 C. 1902 [1] 666).
- 8) 2-Merkapto-1-Phenyl-1,4-Dihydro-1,3-Diazin. Sm. 151° (B. 34, 1919).
- $C_{10}H_{11}ON$  46) 1-Oximido-2-Methyl-2,3-Dihydroinden. Sm. 103° (C. 1901 [2] 421).
- 47) Nitril d. 4-Aethoxyphenylessigsäure. Sm. 47° (A. 322, 148 C. 1902 [2] 282).
- 48) Methyamid d.  $\beta$ -Phenylakrylsäure (M. d. Zimmtsäure). Sm. 111° (A. 320, 88; Soc. 79, 1355 C. 1902 [1] 25).
- 49) Phenylamid d.  $\alpha$ -Crotonsäure. Sm. 115° (B. 34, 192).
- 50) Phenylamid d. Isocrotonsäure. Sm. 72–74° (B. 34, 194).
- $C_{10}H_{11}ON_3$  20)  $\alpha$ -Phenylhydrazon- $\alpha$ -Methylenimido- $\beta$ -Ketopropan. Sm. 136–136,5° (B. 34, 543).
- 21) 6-Amido-4-Keto-2-Phenyl-3,4,5,6-Tetrahydro-1,3-Diazin. Sm. 247–248° (D.R.P. 135371 C. 1902 [2] 1229).
- $C_{10}H_{11}ON_5$  4) Monoacetylderivat d. 3,5-Diimido-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 244° (G. 31 [1] 478).
- $C_{10}H_{11}OCl$  14) Chlorid d. d- $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure. Fl. (C. 1902 [1] 661).
- $C_{10}H_{11}OBr$  11)  $\beta$ -Brom- $\gamma$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten (B. 35, 3185 C. 1902 [2] 1204).
- 12) polym. Bromanethol =  $(C_{10}H_{11}OBr)_x$  (J. pr. [2] 51, 425). — \*II, 497.
- $C_{10}H_{11}OBr_3$  6)  $\alpha\beta\beta$ -Dibrom- $\gamma$ -Oxy- $\alpha$ -Phenylbutan. Sm. 121° (B. 35, 3186 C. 1902 [2] 1204).
- 7) 2,4,6-Tribrom-5-Oxy-3-Isopropyl-1-Methylbenzol. Sm. 118° (B. 27, 2347). — \*II, 466.
- $C_{10}H_{11}O_2N$  \*11) Methyl-4-Acetylamidophenylketon (C. 1902 [2] 355).
- \*34) 1,2,3,4-Tetrahydrochinolin-7-Carbonsäure. Sm. 189° (B. 35, 2612 C. 1902 [2] 601).
- \*35) 1,2,3,4-Tetrachinolin-8-Carbonsäure. Sm. 163° (B. 35, 2611 C. 1902 [2] 601).
- \*36) Phenylimid d. Essigsäure (C. 1902 [2] 355).
- \*54) Methyläther d. 3-Oxy-1,5-Dimethylbenzoxazol. Sm. 71,5–72° (M. 22, 245).
- 60) Methylenäther d. 3,4-Dioxy-1-Aethylimidomethylbenzol. (Piperylenäthylamin). Sm. 51° (B. 35, 421 C. 1902 [1] 656).
- 61) Methyl-3-Acetylamidophenylketon. Sm. 128–129° (B. 34, 3523).
- 62)  $\alpha$ -[2-Methylphenyl]imidopropionsäure. Sm. 146° (A. ch. [7] 9, 476). — \*II, 256.
- 63)  $\alpha$ -[4-Methylphenyl]imidopropionsäure. Sm. 127° (A. ch. [7] 9, 472). — \*II, 275.
- 64) 1,2,3,4-Tetrahydrochinolin-6-Carbonsäure. Zers. bei 170° (B. 35, 2613 C. 1902 [2] 601).
- 65) 5,6-Lakton d. 6-Oxymethyl-2,3,4-Trimethylpyridin-5-Carbonsäure (Trimethylchinolid). Sm. 152°, (2HCl,  $PtCl_4 + 2H_2O$ ), Pikrat (A. 315, 170; A. 322, 365 C. 1902 [2] 735).
- 66) Aethylester d. 2-Methylenamidobenzol-1-Carbonsäure. Sm. 78° (D.R.P. 136779 C. 1902 [2] 1351).
- $C_{10}H_{11}O_2N_3$  \*5) 3,5-Diketo-2,4-Dimethyl-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 93 bis 95° (B. 35, 1563 C. 1902 [1] 1231).
- \*16) Acetat d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan. Sm. 103° (B. 35, 3271 C. 1902 [2] 1251).
- 20) Äthyläther d. 5-Oxy-3-Keto-2-Phenyl-2,3-Dihydro-1,2,4-Triazol. Sm. 141°(?) (B. 35, 559 C. 1902 [1] 635).
- 21) 5-Keto-3-Oxy-4-Äthyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 174° (B. 34, 2334).
- 22) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Äthylhexahydropyridin (C. 1901 [1] 578).
- 23) Amid d.  $\alpha$ -Phenylhydrazon- $\beta$ -Ketobuttersäure. Sm. 151° (B. 35, 583 C. 1902 [1] 570).
- 24) Phenylimid d.  $\alpha\gamma$ -Dicyan- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 163–163,5°. Ag, Ag<sub>2</sub> (C. 1901 [1] 578).
- $C_{10}H_{11}O_2Cl$  \*11) Chlorid d.  $\alpha$ -Oxybutterphenyläthersäure. Sd. 128–131°<sub>98</sub> (B. 34, 2127).
- 15) Aethylester d. Phenylchloressigsäure. Sd. 142°<sub>17–18</sub> (Am. 26, 352).



- $C_{10}H_{11}O_2Cl$  16) Chlorid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Fl. (B. 34, 1841).
- $C_{10}H_{11}O_2Br$  \*3) Methyläther d. Aethyl-3-Brom-4-Oxyphenylketon (C. 1902 [1] 1162).
- 17) p-Brom-1,3-Dioxy-1,2,3,4-Tetrahydronaphthalin. Sm. 158,5° (B. 26, 1841). — II, 981.
- 18) Methylester d.  $\alpha$ -Brom- $\alpha$ -Phenylpropionsäure. Fl. (C. 1902 [2] 578).
- $C_{10}H_{11}O_2Br_3$  \*1) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[ $\alpha\beta$ -Dibrompropyl]benzol. Sm. 132—133° (B. 35, 117 C. 1902 [1] 474).
- 6)  $\alpha$ -Aethyläther d. 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 86° (A. 322, 234 C. 1902 [2] 278).
- $C_{10}H_{11}O_3N$  \*5) 3,4-Methylenäther d.  $\alpha$ -Oximido- $\alpha$ -[3,4-Dioxyphenyl]propan. Sm. 101—102° (C. 1902 [1] 1163).
- \*22) 2-Acetylmethylamidobenzol-1-Carbonsäure. Sm. 192° (C. 1902 [2] 448).
- \*32) 4-Dimethylamidobenzol-1-Ketocarbonsäure. Zers. bei 195° (C. 1901 [1] 238).
- \*69) Methylester d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 100 bis 101° (J. pr. [2] 64, 83).
- 76) 3,4-Methylenäther d.  $\alpha$ -Oximido- $\beta$ -[3,4-Dioxyphenyl]propan. Sm. 71° (Bl. [3] 25, 857).
- 77) Methyl-5-Acetylamido-2-Oxyphenylketon. Sm. 165°. Na (B. 34, 124, 126).
- 78) Dimethyläther d. 3,5-Dioxy-6-Methylbenzoxazol. Sm. 72—74° (M. 22, 1010 C. 1902 [1] 187).
- 79) 2-Methylphenylformylamidoessigsäure. Sm. 113—114° (B. 34, 1648).
- 80) 4-Aethylamidobenzol-1-Ketocarbonsäure. Zers. bei 116° (C. 1901 [1] 238). — \*II, 948.
- 81) Aethylester d. 2-Formylamidobenzol-1-Carbonsäure. Sm. 57° (49 bis 50°) (J. pr. [2] 63, 386; [2] 64, 72, 77).
- 82) Aethylester d. 2-Pyridoylessigsäure. Fl. Na, K, Cu + 3H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub>) (B. 34, 4237 C. 1902 [1] 207).
- 83) Aethylester d. 3-Pyridoylessigsäure. K, Cu, Ag, (2HCl, PtCl<sub>4</sub>) (B. 34, 4247 C. 1902 [1] 209).
- 84) Aethylester d. 4-Pyridoylessigsäure. Sm. 54°. Na, K, Cu, (2HCl, PtCl<sub>4</sub>) (B. 34, 4249 C. 1902 [1] 209).
- $C_{10}H_{11}O_3N_3$  \*15) Acetylphenylhydrazid d. Oxaminsäure. Sm. 221—222° (B. 35, 3686 C. 1902 [2] 1451).
- $C_{10}H_{11}O_3Cl$  5) 4-Chloracetat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Fl. (D.R.P. 105346 C. 1900 [1] 270). — \*II, 579.
- $C_{10}H_{11}O_4N$  \*19)  $\alpha$ -Phenylamidoformoxylpropionsäure. Sm. 142° (Bl. [3] 27, 449 C. 1902 [2] 34).
- \*24) Phenylimidodiessigsäure. HCl (B. 34, 1647).
- \*37) Aethylester d. 6-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 53,5°; Sd. 150—156° (R. 20, 162).
- \*51) Dimethylester d. Benzol-1-Carbonsäure-2-Amidoameisensäure. Sd. 165—166°<sub>12</sub> (C. 1901 [1] 977).
- 54) Dimethyläther d. 1-Keto-3,5-Dioxy-6-Methyl-1,2-Dihydrobenzoxazol. Sm. 188—189° (M. 22, 1008 C. 1902 [1] 186).
- 55) Benzol-1-Carbonsäure-2-Methylamidoessigsäure. Sm. 189° u. Zers. (B. 35, 1699 C. 1902 [1] 1363).
- 56) 4-Methylphenylamidomalonsäure. Sm. 117° (D.R.P. 95268). — \*II, 283.
- 57) 5-Acetylamido-2-Oxybenzylmethyläther-1-Carbonsäure. Sm. 206 bis 207° (D.R.P. 71258). — \*II, 898.
- 58) 2,3,4-Trimethylpyridin-5,6-Dicarbonsäure + H<sub>2</sub>O. Sm. 194—195° (A. 322, 372 C. 1902 [2] 736).
- 59)  $\alpha$ ,3-Lakton d.  $\alpha\gamma$ -Dioxy- $\beta$ -[4-Pyridyl]- $\beta$ -Oxymethylpropan-3-Carbonsäure. (L. d. Trimethylolhomonikotinsäure). Sm. 148°. (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 4337 C. 1902 [1] 320).
- 60) Methylester d. Acetyl-4-Oxyphenylamidoameisensäure. Sm. 118 bis 120° (D.R.P. 69328). — \*II, 404.
- 61) 2-Aethylester d. Pyridin-2,3-Dicarbonsäure-1,3-Methylbetain. Sm. 160° u. Zers. (M. 22, 372).
- 62) 2-Methylester-3-Aethylester d. Pyridin-2,3-Dicarbonsäure. Sd. 250—255° u. Zers. (2HCl, PtCl<sub>4</sub>) (M. 22, 581).

- $C_{10}H_{11}O_4N$  63) 3-Methylester-2-Aethylester d. Pyridin-2,3-Dicarbonsäure. *Sd.* 254—258° (*M.* 22, 582).
- 64) 1-Acetat d. 4-Oxy-3-Oximido-1-Oxymethylbenzol. *Sm.* 133—134° (*B.* 35, 127 *C.* 1902 [1] 465).
- $C_{10}H_{11}O_4N_3$  \*11) Aethylester d. Phenylazidioxiazin (*B.* 35, 156 *C.* 1902 [1] 411).
- 13)  $\alpha$ -[2-Nitro-4-Methylphenyl]hydrazonpropionsäure. *Sm.* 203° u. *Zers.* (*Soc.* 79, 1142).
- 14) 3-Uramido-4-Methylphenyloxaminsäure. *Sm.* 203° (*A.* 268, 338). — *IV*, 605.
- 15)  $\beta$ -Phenyl- $\alpha$ -Nitrosohydrazid d. Oxalsäuremonoäthylester. *Sm.* 80 bis 81° u. *Zers.* (*B.* 35, 3685 *C.* 1902 [2] 1451).
- $C_{10}H_{11}O_6N$  \*37) Aethylester d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure (*M.* 22, 940).
- $C_{10}H_{11}O_6N_3$  \*2) 4,6-Dinitro-2-Acetylamido-1,3-Dimethylbenzol. *Sm.* 225—226° u. *Zers.* (*B.* 35, 629 *C.* 1902 [1] 748).
- 11) 4-[2,4-Dinitrophenyl]morpholin. *Sm.* 118° (*C.* 1901 [1] 978).
- $C_{10}H_{11}O_6N_3$  \*6) 2,4,6-Trinitro-1,3-Diäthylbenzol. *Sm.* 60—62° (*G.* 32 [1] 308 *C.* 1902 [1] 1404).
- 14) Aethylester d. 4-Nitrobenzylnitramidoameisensäure (*B.* 31, 180). — \*II, 296.
- $C_{10}H_{11}O_7N_3$  3) Isobutyläther d. 2,4,6-Trinitro-1-Oxybenzol. *Sm.* 53—54° (*A.* 323, 241 *C.* 1902 [2] 803).
- $C_{10}H_{11}O_8N_3$  \*2) Diäthyläther d. 2,4,6-Trinitro-1,3-Dioxybenzol. *Sm.* 121° (*Am.* 26, 52).
- $C_{10}H_{11}O_9N_3$  \*1) Diäthyläther d. 2,4,6-Trinitro-1,3,5-Trioxybenzol. *Sm.* 89° (*R.* 21, 263 *C.* 1902 [2] 519).
- $C_{10}H_{11}NS$  9) 5-Rhodanmethyl-1,3-Dimethylbenzol. *Sm.* 58° (*Am.* 26, 205).
- $C_{10}H_{11}NS_2$  5) Allylester d. Phenylamidodithioameisensäure. *Sm.* 42° (*B.* 35, 3384 *C.* 1902 [2] 1363).
- $C_{10}H_{11}N_3S$  4)  $\gamma$ -Thiosemicarbazon- $\alpha$ -Phenylpropen. *Sm.* 123° (*B.* 35, 2604 *C.* 1902 [2] 572).
- $C_{10}H_{11}N_3S_2$  1) 3-Imido-5-[2,4-Dimethylphenyl]imido-4,5-Dihydro-1,2,4-Dithioazol (2,4-Xylylthiuret). *Sm.* 99°. *HCl*, *HJ*, *Salicylat*, *o*-Kresotinat (*D.R.P.* 68697). — \*II, 313.
- $C_{10}H_{11}ON_2$  \*4)  $\gamma$ -Phenylhydrazon- $\beta$ -Ketobutan. *Sm.* 134° (*C.* 1901 [1] 299).
- \*38) 2-Keto-1,3,5-Trimethyl-2,3-Dihydrobenzimidazol. *Sm.* 106° (*B.* 35, 1263 *C.* 1902 [1] 1062).
- 39) Nitril d.  $\alpha$ -Oxy- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. *Sm.* 113 bis 114° (*B.* 35, 3571 *C.* 1902 [2] 1383).
- 40) Benzylidenhydrazid d. Propionsäure. *Sm.* 115° (*J. pr.* [2] 64, 405 *C.* 1902 [1] 22; *B.* 35, 3240 *C.* 1902 [2] 1045).
- $C_{10}H_{12}OCl_2$  \*4) 4-Keto-1-Dichlormethyl-1,2,5-Trimethyl-1,4-Dihydrobenzol. *Sm.* 96,5° (*B.* 35, 467 *C.* 1902 [1] 647).
- $C_{10}H_{12}OS$  3) Propylester d. Benzolthiolcarbonsäure (*C.* 1901 [2] 629).
- $C_{10}H_{12}O_2N_2$  \*37)  $\alpha$ -Phenylhydrazonbuttersäure. *Sm.* 151—152° (*C.* 1901 [2] 212; *Bl.* [3] 27, 326 *C.* 1902 [1] 1205; *R.* 21, 232 *C.* 1902 [2] 506).
- 67) Allyläther d. 4-Oxyphenylharnstoff. *Sm.* 154° (*B.* 34, 1941).
- 68) Oxim d. Methyl-3-Acetylamidophenylketon. *Sm.* 192—194° (*B.* 34, 3523).
- 69) 2,4-Di[Formylamido]-1,3-Dimethylbenzol. *Sm.* 219—220° (*Soc.* 81, 93 *C.* 1902 [1] 186).
- 70) 4,6-Di[Formylamido]-1,3-Dimethylbenzol. *Sm.* 182—183° (*Soc.* 81, 93 *C.* 1902 [1] 186).
- 71) Nitroso-4-Methylmorpholin. *Sm.* 100°. *HCl* (*C.* 1901 [1] 978).
- 72) Methylester d.  $\beta$ -Phenylhydrazonpropionsäure. *Sm.* 46—47° (*A.* 316, 40).
- 73) Aethylester d.  $\beta$ -Amido- $\beta$ -[2-Pyridyl]akrylsäure. *Sm.* 63° (*B.* 34, 4240 *C.* 1902 [1] 208).
- 74) Benzylidenhydrazid d.  $\alpha$ -Oxypropionsäure. *Sm.* 185° (*B.* 35, 3240 *C.* 1902 [2] 1045).
- 75) 2-Oxybenzylidenhydrazid d. Propionsäure. *Sm.* 184° (*J. pr.* [2] 64, 406 *C.* 1902 [1] 22).
- $C_{10}H_{12}O_2Br_2$  \*4) 2-Methyläther d. 3,6-Dibrom-5-Oxy-2-Oxymethyl-1,4-Dimethylbenzol. *Sm.* 92° (*B.* 34, 4269 *C.* 1902 [1] 307).

- $C_{10}H_{12}O_2Br_2$  11) 3-Methyläther d. 3,4-Dioxy-1-[ $\alpha$ - $\beta$ -Dibrompropyl]benzol (Isoeugenol-dibromid). Sm. 94—95° (*B.* 35, 121 *C.* 1902 [1] 474).
- 12) 4-Methyläther d. 3,6-Dibrom-5-Oxy-4-Oxymethyl-1,2-Dimethylbenzol. Sm. 43° (*B.* 35, 797 *C.* 1902 [1] 725).
- 13)  $\alpha$ -Aethyläther d. 3,5-Dibrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 99 bis 100° (*A.* 322, 238 *C.* 1902 [2] 278).
- $C_{10}H_{12}O_3N_2$  \*19)  $\alpha$ -[ $\beta$ -Phenylureido]propionsäure. Sm. 173° (*C.* 1902 [1] 763; *B.* 35, 3794 *C.* 1902 [2] 1414).
- \*20)  $\beta$ -[ $\beta$ -Phenylureido]propionsäure. Sm. 174° (*C.* 1902 [1] 763; *B.* 35, 3796 *C.* 1902 [2] 1415).
- \*34) Aethylester d. Benzylnitrosamidoameisensäure (*B.* 35, 902).
- \*36) Aethylester d.  $\alpha$ -Oximido- $\alpha$ -Phenylamidoessigsäure (*B.* 35, 157 *C.* 1902 [1] 411).
- \*67) Phenylhydrazid d. Oxalsäuremonoäthylester. Sm. 118—120° (*G.* 31 [1] 588; *B.* 35, 3684 *C.* 1902 [2] 1451).
- 71) Methyl-6-Nitro-3-Dimethylamidophenylketon. Sm. 149—150° (*B.* 34, 3525).
- 72)  $\alpha$ -Oximido- $\alpha$ -[5-Acetylamido-2-Oxyphenyl]äthan. Sm. 160° (*B.* 34, 126).
- 73) 4-Acetylamidophenylamidoessigsäure (D.R.P. 135335 *C.* 1902 [2] 1167).
- 74) Benzoat d.  $\beta$ -Methylnitrosamido- $\alpha$ -Oxyäthan. Fl. (*B.* 34, 3550).
- 75) 2-Amidd. Benzol-1-Carbonsäure-2-Amidoessigsäure-1-Methylester. Sm. 195° (D.R.P. 136779 *C.* 1902 [2] 1352).
- 76) Amid d. 6-Acetoxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 290° (*Soc.* 81, 115 *C.* 1902 [1] 427).
- 77) Dimethylamid d. 4-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 160° (*R.* 20, 171).
- 78) Dimethylamid d. 6-Nitro-1-Methylbenzol-2-Carbonsäure. Sm. 69,5 bis 70° (*R.* 20, 172).
- 79) Dimethylamid d. 4-Nitro-1-Methylbenzol-3-Carbonsäure. Sm. 88,5° (*R.* 20, 164).
- 80) Dimethylamid d. 2-Nitro-1-Methylbenzol-4-Carbonsäure. Sm. 49° (*R.* 20, 159).
- 81) 4-Nitro-2,3-Dimethylphenylamid d. Essigsäure. Sm. 149—150° (*B.* 34, 2247). — \*II, 308.
- 82) 5-Nitro-2,3-Dimethylphenylamid d. Essigsäure. Sm. 230—231° (*B.* 34, 2247). — \*II, 308.
- 83) 6-Nitro-2,3-Dimethylphenylamid d. Essigsäure. Sm. 160° (*B.* 34, 2247). — \*II, 308.
- 84) 2-Nitro-3,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 115 bis 116° (*B.* 34, 2251). — \*II, 308.
- 85) 5-Nitro-3,4-Dimethylphenylamid d. Essigsäure. Sm. 209—210° (*B.* 34, 2251). — \*II, 308.
- 86) 6-Nitro-3,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 107° (*B.* 34, 2251). — \*II, 308.
- $C_{10}H_{12}O_3N_4$  2)  $\beta$ -Phenyl- $\alpha$ -Nitrosohydrazid d. Aethyloxaminsäure. Sm. 107—108° (*B.* 35, 3688 *C.* 1902 [2] 1451).
- $C_{10}H_{12}O_3N_8$  C 41,1 — H 4,1 — O 16,4 — N 38,3 — M. G. 292.
- 1) Triacetylderivat d. Guanazoguanazol (*G.* 31 [1] 504).
- $C_{10}H_{12}O_3Br_2$  3) 3-Methyläther d. 5-Brom-3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol. Sm. 135—136° (*B.* 35, 118 *C.* 1902 [1] 474).
- 6) 2-Methyläther-4-Aethyläther d. 3,5-Dibrom-2,4,6-Trioxyl-Methylbenzol. Sm. 72—74° (*M.* 23, 569 *C.* 1902 [2] 738).
- 7) 4-Methyläther d. 3,5-Dibrom-2,4,6-Trioxyl-Methylbenzol. Sm. 84—86° (*M.* 23, 570 *C.* 1902 [2] 738).
- $C_{10}H_{12}O_3S$  \*2)  $\alpha$ -Tetrahydronaphtalin- $\beta$ -Sulfonsäure (*C.* 1902 [2] 1119).
- $C_{10}H_{12}O_3Hg$  \*2) Acetat d. 4-Aethoxyphenylquecksilberoxydhydrat. Sm. 162° (*C.* 1901 [1] 453; *B.* 35, 2867 *C.* 1902 [2] 1040).
- $C_{10}H_{12}O_4N_2$  43)  $\beta$ -[ $\beta$ -Phenylureido]- $\alpha$ -Oxypropionsäure. Sm. 183—184° u. Zers. (*C.* 1902 [1] 763; *B.* 35, 3796 *C.* 1902 [2] 1415).
- 44)  $\alpha$ -[ $\beta$ -Phenylureido]- $\beta$ -Oxypropionsäure. Sm. 168—169° (*C.* 1902 [1] 762; *B.* 35, 3792 *C.* 1902 [2] 1414).
- $C_{10}H_{12}O_4N_4$  5) Di[Allylamid] d. Bisanhydronitroessigsäure. Sm. 95—97° (*B.* 34, 879).

- $C_{10}H_{12}O_4N_6$  C 42,9 — H 4,3 — O 22,8 — N 30,0 — M. G. 280.  
 1)  $\alpha\beta$ -Disemicarbazon- $\alpha$ -[3,4-Dioxyphenyl]äthan +  $H_2O$ . Sm. 222 bis 223°. HCl (B. 34, 93).
- $C_{10}H_{12}O_4Br_4$  3) Bromderivat d. Säure  $C_{10}H_{12}O_4$ . Sm. 204° (B. 34, 2664).
- $C_{10}H_{12}O_4S$  10) 2,4-Dimethylphenylsulfonessigsäure. Sm. 56° (J. pr. [2] 66, 142 C. 1902 [2] 796).  
 11) 2,5-Dimethylphenylsulfonessigsäure. Fl. (J. pr. [2] 66, 143 C. 1902 [2] 796).  
 12) Acetat d. Oxymethyl-4-Methylphenylsulfon. Sm. 78° (J. pr. [2] 63, 169).
- $C_{10}H_{12}O_4S_2$  3) Cyklo- $\alpha$ -o-Xylylendisulfonäthan. Sm. oberh. 300° u. Zers. (B. 35, 1394 C. 1902 [1] 1096).
- $C_{10}H_{12}O_5N_4$  C 44,8 — H 4,5 — O 29,8 — N 20,9 — M. G. 268.  
 1) Triacetylderivat d. 5,6-Diamido-2,4-Diketo-1,2,3,4-Tetrahydro-1,3-Diazin (Triacetyldiamidouracil). (D.R.P. 126797 C. 1902 [1] 81).
- $C_{10}H_{12}O_5S$  7) 3-Oxy-1-Allylbenzolzomethyläther-4-Schwefelsäure (Eugenolschwefelsäure). K, Pyridinsalz (Bl. [3] 25, 46). — \*II, 588.  
 8) 3-Oxy-1-Propenylbenzolzomethyläther-4-Schwefelsäure (Isoeugenolschwefelsäure). K (Bl. [3] 25, 47). — \*II, 590.
- $C_{10}H_{12}O_6N_2$  \*1) Diäthyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 133° (Am. 26, 7; R. 21, 287 C. 1902 [2] 513).  
 7) Verbindung (aus Kautschuk). Sm. 142—143° (B. 35, 1401 C. 1902 [1] 1103; B. 35, 3265 C. 1902 [2] 1259).
- $C_{10}H_{12}N_3S$  11) Phenylthioureido-R-Trimethylen. Sm. 123—123,5° (C. 1901 [2] 580).
- $C_{10}H_{12}N_3S_2$  6) Phenylhydrazonmethylenäther d.  $\alpha\gamma$ -Dimerkaptopropan. Sm. 76° (J. pr. [2] 65, 477 C. 1902 [2] 28).  
 7) 4-Methylphenylhydrazonmethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan. Sm. 124° (J. pr. [2] 60, 220; [2] 61, 337).
- $C_{10}H_{12}ON$  \*16)  $\alpha$ -Oximido- $\alpha$ -[4-Methylphenyl]propan. Sm. 89—90° (B. 35, 2252 C. 1902 [2] 273).  
 \*20) Äthyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenyläthan. Sd. 220—225°<sub>760</sub> (Soc. 79, 638).  
 \*51) Phenylamid d. Buttersäure. Sm. 89—90° (B. 34, 177).  
 \*67) 2,4-Dimethylphenylamid d. Essigsäure. Sm. 133—134° (129°) (B. 34, 1780; B. 35, 111 C. 1902 [1] 414).  
 \*71) 3,5-Dimethylphenylamid d. Essigsäure. Sm. 138—139° (A. 322, 382 C. 1902 [2] 736).  
 \*81) Äthyläther d.  $\alpha$ -Phenylimido- $\alpha$ -Oxyäthan. HCl (Soc. 81, 597 C. 1902 [1] 1056).  
 89) Methyläther d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Oxyäthan. Sd. 212°<sub>760</sub>. HCl, (2HCl, PtCl<sub>4</sub>) (Soc. 79, 694).  
 90) Methyl-3-Dimethylamidophenylketon. Sm. 42—43°; Sd. 148°<sub>13</sub>. HJ (B. 34, 3523).  
 91) 2-Methylbenzimidäthyläther (Ph. Ch. 30, 543). — \*II, 823.  
 92)  $\alpha$ -Oximido- $\alpha$ -Phenylbutan. Sm. 49—50° (B. 35, 1073 C. 1902 [1] 930).  
 93) 4-[ $\alpha$ -Oximidoäthyl]-1-Aethylbenzol. Sm. 82—83° (B. 35, 2250 C. 1902 [2] 273).  
 94) 4-Methyläther d.  $\beta$ -Oximido- $\alpha$ -[4-Oxyphenyl]propan. Sm. 72° (C. 1901 [1] 831).  
 95) N-Aethylisoacetophenonoxim. + NaJ (Soc. 79, 638).  
 96) 3-Methyl-2-Phenyltetrahydrooxazol. Sd. 240°<sub>746</sub>. Pikrat (B. 34, 3486).  
 97) 4-Valerylpyridin (Butyl-4-Pyridylketon). Sd. 239—240°. Pikrat (B. 34, 4252 C. 1902 [1] 210).  
 98) Dimethylamid d. 1-Methylbenzol-2-Carbonsäure. Sd. 147°<sub>13</sub> (R. 20, 170).  
 99) Dimethylamid d. 1-Methylbenzol-3-Carbonsäure. Sd. 184°<sub>11</sub> (R. 20, 163).  
 100) Dimethylamid d. 1-Methylbenzol-4-Carbonsäure. Sm. 41°; Sd. 156°<sub>10</sub> (R. 20, 157).  
 101) Methyläthylamid d. Benzocarbonsäure. Sd. 280° (Soc. 79, 407). — \*II, 728.  
 102) Propylamid d. Benzocarbonsäure. Sm. 84,5°; Sd. 294—295°<sub>750</sub>. HCl, Na (Soc. 79, 405). — \*II, 728.

- $C_{10}H_{13}ON_3$  6)  $\alpha$ -Semicarbazon- $\alpha$ -Phenylpropan. Sm. 182° (173—175°) (*C. r.* 133, 1218 *C. 1902* [1] 299; *A.* 321, 103 *C. 1902* [1] 979).  
 7)  $\gamma$ -Semicarbazon- $\alpha$ -Phenylpropan. Sm. 130—131° (*J. pr.* [2] 66, 52 *C. 1902* [2] 520).  
 8)  $\alpha$ -Semicarbazon- $\alpha$ -[4-Methylphenyl]äthan. Sm. 204—205° (*B.* 35, 1070 *C. 1902* [1] 929).  
 9) Äthyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan. Sm. 39—39,5° (*B.* 35, 755 *C. 1902* [1] 719).  
 10) Amid d.  $\beta$ -Phenylhydrazonbuttersäure. Sm. 128° (*B.* 35, 583 *C. 1902* [1] 570).
- $C_{10}H_{13}OBr_3$  \*2) Tribromcampher. Sm. 66° (*C. 1902* [1] 119; *Soc.* 81, 1467 *C. 1902* [2] 1466).
- $C_{10}H_{13}OJ$  2) 4-Jodoso-1-tert. Butylbenzol. Zers. bei 189° (*B.* 34, 3669).
- $C_{10}H_{13}OAs$  1) 4-tert. Butylphenylarsenoxyd. Sm. 89° (*A.* 320, 341 *C. 1902* [1] 923).
- $C_{10}H_{13}O_2N$  \*23) Äthyläther d. 4-Acetylamido-1-Oxybenzol. Sm. 137—138° (*B.* 35, 111 *C. 1902* [1] 414).  
 \*65) Betain d. 3-Trimethylamidobenzol-1-Carbonsäure. Sm. 236,5 bis 238° (wasserfrei) (*B.* 35, 595 Anm.).  
 \*75) Äthylester d. 2-Methylamidobenzol-1-Carbonsäure. Sm. 39°; Sd. 172—175°<sub>45</sub> (*B.* 34, 1645).  
 \*80) Äthylester d. Benzylamidoameisensäure. Sm. 46° (*J. pr.* [2] 64, 320).  
 \*97) Amid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 123° (*B.* 34, 1837).  
 126)  $\beta$ -Nitro-tert. Butylbenzol. Sd. 141—143°<sub>15</sub> (*J. r.* 27, 426). — \*II, 63.  
 127) Methylenäther d. 3,4-Dioxy-1-Äthylamidomethylbenzol (Piperonyl-äthylamin). Sd. 148°<sub>20</sub>. HCl, (2HCl, PtCl<sub>4</sub>), HBr, Pikrat (*B.* 35, 422 *C. 1902* [1] 656).  
 128) Äthyläther d. Methyl-5-Amido-2-Oxyphenylketon. Sm. 60°. HCl (*B.* 34, 127).  
 129)  $\gamma$ -Oximido- $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sm. 100° (*M.* 22, 100).  
 130) 4-Methyläther d.  $\alpha$ -Oximido- $\beta$ -[4-Oxyphenyl]propan. Sm. 96° (*C. 1902* [1] 1056).  
 131) Methylester d. 2-Äthylamidobenzol-1-Carbonsäure. Sd. 148 bis 150°<sub>45</sub> (*B.* 34, 1645).  
 132) Benzoat d.  $\beta$ -Methylamido- $\alpha$ -Oxyäthan. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (*B.* 34, 3550).  
 133) Nitril d. Camphansäure. Sm. 135—137° (*Soc.* 79, 1291).  
 134) Amid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 114° (*B.* 34, 1837).  
 135) Amid d. 4-Aethoxylphenylessigsäure. Sm. 184° (*A.* 322, 151 *C. 1902* [2] 282).
- $C_{10}H_{13}O_2N_3$  25) Äthyläther d.  $\alpha$ -Imido- $\alpha$ -Phenylureido- $\alpha$ -Oxymethan. Sm. 85,5 bis 86° (*Am.* 26, 258).  
 26) Glykol-4-Methylphenylguanidin. Sm. 262° u. Zers. (*J. pr.* [2] 65, 374 *C. 1902* [1] 1329).  
 27) Amid d.  $\alpha$ -Phenylamidoäthan- $\alpha\alpha$ -Dicarbonsäure. Sm. 187° (*B.* 35, 515 *C. 1902* [1] 657).  
 28) Phenylhydrazid d. Äthyloxaminsäure. Sm. 181—182° (*B.* 35, 3687 *C. 1902* [2] 1451).
- $C_{10}H_{13}O_2J$  1) 4-Jodo-1-tert. Butylbenzol. Sm. 201° (*B.* 34, 3671).
- $C_{10}H_{13}O_2As$  1) Anhydrid d. Trimethylphenylarsoniumhydrat-4-Carbonsäure + 2½ H<sub>2</sub>O (*A.* 320, 315 *C. 1902* [1] 921).
- $C_{10}H_{13}O_3N$  \*9) Isobutyläther d. 4-Nitro-1-Oxybenzol. Sm. 39°; Sd. 293—295° u. Zers. (*B.* 34, 1945).  
 \*36) 4-Methylphenylamid d. i- $\alpha$ - $\beta$ -Dioxpropionsäure. Sm. 120—120,5° (*Soc.* 79, 272).  
 \*41) 3-Methyläther d. 4-Acetylamido-3,5-Dioxy-1-Methylbenzol. Sm. 156—157° (*M.* 22, 243).  
 \*48) Äthylester d. 5-Amido-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 106° (*M.* 22, 941).  
 51) Nitrosoderivat d. Oxyketon C<sub>10</sub>H<sub>14</sub>O<sub>2</sub>. Sm. 142—143° u. Zers. (*B.* 35, 3840 *C. 1902* [2] 1462).  
 52)  $\alpha$ -Oxy- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Ba (*B.* 35, 3572 *C. 1902* [2] 1384).  
 53) 2-Oxy-1-Dimethylamidomethylbenzol-3-Carbonsäure. Sm. 210° (*C. 1901* [1] 1394).



- C<sub>10</sub>H<sub>13</sub>O<sub>3</sub>N** 54) 6-Oxymethyl-2,3,4-Trimethylpyridin-5-Carbonsäure. Sm. 169°. Ag (A. 322, 367 C. 1902 [2] 736).  
 55) 4-Oxy-2,6-Dimethylpyridinäthyläther-3-Carbonsäure + 3H<sub>2</sub>O. Sm. 200—201° (wasserfrei). Na, Ag, HCl (B. 35, 3160 C. 1902 [2] 1215).  
 56) 5,6-Lakton d. 1-Oxy-6-Oxymethyl-2,4,4-Trimethyl-1,4-Dihydropyridin-5-Carbonsäure. Zers. 212—216° (A. 322, 364 C. 1902 [2] 735).  
 57) Äthylester d. 6-Oxy-2,4-Dimethylpyridin-5-Carbonsäure. Sm. 136°. HCl (B. 35, 2393 C. 1902 [2] 454).  
 58) Äthylester d. 6-Oxy-2,5-Dimethylpyridin-3-Carbonsäure. Sm. 216—217° (B. 34, 3695 C. 1902 [1] 47).  
 59) 2-Methylphenylamid d. 1- $\alpha$ -Dioxypropionsäure. Sm. 89—89,5° (Soc. 79, 271).  
 60) 2-Methylphenylamid d. i- $\alpha$ -Dioxypropionsäure. Sm. 129—129,5° (Soc. 79, 271).  
 61) 4-Methylphenylamid d. 1- $\alpha$ -Dioxypropionsäure. Sm. 131—131,5° (Soc. 79, 272).  
 62) 4-Methoxyphenylamid d.  $\alpha$ -Oxypropionsäure. Sm. 106,5° (D.R.P. 70250). — \*II, 408.
- C<sub>10</sub>H<sub>13</sub>O<sub>3</sub>N<sub>3</sub>** \*3) Äthylester d. Ureidophenylamidoameisensäure. Sm. 171,5° (B. 35, 556 C. 1902 [1] 634; Am. 27, 269 C. 1902 [1] 1299).
- C<sub>10</sub>H<sub>13</sub>O<sub>3</sub>Br** \*3) Anhydrid d. d-Bromcamphersäure (Soc. 79, 1284).  
 10) 3-Methyläther d. 3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol. Fl. (B. 35, 122 C. 1902 [1] 474).  
 11) Diäthyläther d. 4-Brom-1,2,3-Trioxybenzol. Sm. 103—104° (M. 23, 195 C. 1902 [1] 1332).  
 12) Anhydrid d.  $\beta$ -Bromcamphersäure. Sm. 142° (C. 1902 [1] 119; Soc. 81, 1468 C. 1902 [2] 1466).
- C<sub>10</sub>H<sub>13</sub>O<sub>4</sub>N** 28) Pyrrol-2,5-Di[Aethyl- $\beta$ -Carbonsäure]. Sm. 166° (B. 34, 1268; B. 35, 2010 C. 1902 [2] 125).
- C<sub>10</sub>H<sub>13</sub>O<sub>5</sub>N** \*3) Diäthylester d.  $\alpha$ -Cyan- $\beta$ -Oxypropen- $\alpha$ - $\gamma$ -Dicarbonsäure (C. 1901 [1] 883).  
 4) 1-[ $\beta$ -Oxyäthyl]-2,5-Dimethylpyrrol-3,4-Dicarbonsäure (C. 1901 [1] 72).  
 4)  $\alpha$ -Benzoxylisopropylphosphinsäure. Sm. 102°. Ag<sub>2</sub> (C. r. 135, 107 C. 1902 [2] 504).
- C<sub>10</sub>H<sub>13</sub>NS<sub>2</sub>** 4) Dimethyläther d. Benzylimidodimerkaptomethan. Sd. 210—220°. Pikrat (C. r. 134, 110 C. 1902 [1] 413; Bl. [3] 27, 64 C. 1902 [1] 577).  
 5) Dimethyläther d. 4-Methylphenylimidodimerkaptomethan. Sd. 315° (Bl. [3] 27, 812 C. 1902 [2] 695).  
 6) Methylbenzyläther d. Methylimidodimerkaptomethan. Sd. 300° u. Zers. (2HCl, PtCl<sub>4</sub>), HJ, Pikrat (Bl. [3] 27, 587 C. 1902 [2] 349).  
 7)  $\gamma$ -Phenylpropylamidodithioameisensäure. ( $\gamma$ -Phenylpropylaminsalz Sm. 90°) (B. 27, 2311). — \*II, 317.
- C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>Cl** 3) 3-Chlormethylat d. 1,6-Dimethylbenzimidazol. Sm. 275°. 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (B. 35, 1261 C. 1902 [1] 1062).
- C<sub>10</sub>H<sub>13</sub>N<sub>2</sub>J** 4) 3-Jodmethylat d. 1,6-Dimethylbenzimidazol. Sm. 227° (B. 35, 1261 C. 1902 [1] 1062).
- C<sub>10</sub>H<sub>13</sub>Cl<sub>2</sub>J** 1) 1-Isobutylbenzol-4-Jodidchlorid. Sm. 95° (J. pr. [2] 65, 570 C. 1902 [2] 351).  
 2) 1-tert. Butylbenzol-4-Jodidchlorid. Zers. 74° (90°). + Pyridin (B. 34, 3669; J. pr. [2] 65, 569 C. 1902 [2] 351).  
 3) 1-Methyl-4-Isopropylbenzol-2-Jodidchlorid. Sm. 92,5° u. Zers. (J. pr. [2] 65, 573 C. 1902 [2] 352).  
 4) 1-Methyl-4-Isopropylbenzol-3-Jodidchlorid. Sm. 87° (J. pr. [2] 65, 574 C. 1902 [2] 352).
- C<sub>10</sub>H<sub>13</sub>Cl<sub>2</sub>As** 1) 4-tert. Butylphenyldichlorarsin. Sd. 175—180°<sub>30</sub> (A. 320, 341 C. 1902 [1] 923).
- C<sub>10</sub>H<sub>13</sub>SA<sub>2</sub>** 1) 4-tert. Butylphenylarsensulfid. Sm. 292° (A. 320, 342 C. 1902 [1] 923).
- C<sub>10</sub>H<sub>14</sub>ON<sub>2</sub>** \*27) Oxynikotin (Nikotinoxid). 2 Pikrat (B. 34, 2412).  
 \*38) Phenylhydrazid d. Buttersäure. Sm. 103° (B. 34, 178; C. 1901 [1] 1154).  
 \*40)  $\beta$ -Phenylhydrazid d. Isobuttersäure. Sm. 140° (B. 34, 2073).  
 \*47) Methyläther d.  $\alpha$ -Imido- $\alpha$ -Äthylphenylamido- $\alpha$ -Oxymethan. HCl (Am. 26, 242).

- $C_{10}H_{14}ON_2$  \*51) 2-Oxy-1,2,3-Trimethyl-2,3-Dihydrobenzimidazol. Sm. 164° (B. 34, 938).  
 53) 4-Nitroso-1-Methylpropylamidobenzol. HCl (B. 29, 2112). — \*II, 154.  
 54) 2-Nitroso-5-Aethylamido-1,3-Dimethylbenzol. Sm. 138°. HCl (B. 34, 948).  
 55) Aethyläther d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Amido- $\alpha$ -Oxymethan. Sd. 144°. (2HCl, PtCl<sub>4</sub>) (Am. 26, 234).  
 56) Methyl-2-Amido-5-Dimethylamidophenylketon. HCl, (2HCl, SnCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>) (B. 34, 3525).  
 57)  $\alpha$ -Oximido- $\alpha$ -[3-Dimethylamidophenyl]äthan. Sm. 78—79° (B. 34, 3524).  
 58) 2-Oxy-1,3,5-Trimethyl-2,3-Dihydrobenzimidazol. Sm. 110° (B. 35, 1262 C. 1902 [1] 1062).  
 59) Amid d.  $\alpha$ -Phenylamidoisobuttersäure. Sm. 137° (B. 15, 2042). — II, 435; \*II, 228.  
 60) Amid d.  $\alpha$ -Methylphenylamidopropionsäure. Sm. 68—69° (B. 35, 3360 C. 1902 [2] 1196).  
 61) Phenylamid d. Dimethylamidoessigsäure. Sm. 35° (D.R.P. 59 121). — \*II, 170.
- $C_{10}H_{14}OBr_2$  \*1)  $\alpha\alpha$ -Dibromcampher (Soc. 81, 311 C. 1902 [1] 969).  
 \*2)  $\alpha\beta$ -Dibromcampher (Soc. 81, 311 C. 1902 [1] 969).
- $C_{10}H_{14}OBr$  4) Thymoltetrabromid (C. 1902 [2] 75).
- $C_{10}H_{14}O_3N_2$  45) Propyläther d. 4-Oxyphenylharnstoff. Sm. 147° (B. 34, 1939).  
 46) Methyläther d. 3-Acetylamido-5-Amido-4-Oxy-1-Methylbenzol (C. 1901 [2] 1374).  
 47) Aethyläther d. 2-Amidoacetylamido-1-Oxybenzol. Sm. 66,5° (D.R.P. 59 121, 59 874). — \*II, 389.  
 48) Aethyl ester d.  $\beta$ -[4-Methylphenyl]hydrazidoameisensäure. Sm. 89—90° (B. 34, 2338).  
 49) Amid d.  $\alpha$ -Oxy- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Sm. 195° (B. 35, 3572 C. 1902 [2] 1383).  
 50) 3-Aethoxyphenylamid d. Amidoessigsäure. Sm. 92° (D.R.P. 59 121, 59 874). — \*II, 395.  
 51) 4-Aethoxyphenylamid d. Amidoessigsäure + H<sub>2</sub>O (Phenokoll). Sm. 95° (100,5° wasserfrei) (D.R.P. 59 121, 59 874). — \*II, 403.
- $C_{10}H_{14}O_2N_4$  \*6)  $\alpha\alpha$ -Di[5-Keto-3-Methyl-4,5-Dihydro-4-Pyrazolyl]äthan. Sm. 250° u. Zers. (A. 323, 99 C. 1902 [2] 784).  
 9) 2,6-Diketo-1,3,7-Trimethyl-8-Aethylpurin. Sm. 186—187,5° (D.R.P. 128 212 C. 1902 [1] 549).
- $C_{10}H_{14}O_2Br_2$  4) Dehydrocampholenlaktondibromid. Sm. 99—100° (Bl. [3] 27, 405 C. 1902 [1] 1334).
- $C_{10}H_{14}O_2S$  6) Aethyl-2,4-Dimethylphenylsulfon. Sm. 53° (J. pr. [2] 66, 150 C. 1902 [2] 797).
- $C_{10}H_{14}O_3N_2$  5) Aethyl ester d.  $\beta$ -[4-Methoxyphenyl]hydrazidoameisensäure. Sm. 84° (B. 34, 2323).  
 6) Aethyl ester d. 5-Propionyl-4-Methylpyrazol-3-Carbonsäure? Sm. 59° (J. pr. [2] 65, 392 C. 1902 [1] 1365).
- $C_{10}H_{14}O_3N_4$  \*3) Aethyläther d. 8-Oxy-2,6-Diketo-1,3,7-Trimethylpurin (B. 35, 1992 C. 1902 [2] 110).  
 4) 2,6,8-Triketo-1,7-Dimethyl-9-Aethylpurin. Sm. 197—198° (B. 35, 1992 C. 1902 [2] 110).
- $C_{10}H_{14}O_3S$  \*15) 4-Isopropyl-1-Methylbenzol-3-Sulfonsäure (C. 1901 [2] 1030).  
 29) 1-sec. Butylbenzol-4-Sulfonsäure. Sm. 84—85°. K, Ba + 1½ H<sub>2</sub>O (B. 33, 441). — \*II, 83.  
 30) 2-Isopropyl-1-Methylbenzol-2-Sulfonsäure. Ba + H<sub>2</sub>O, Pb + 2 H<sub>2</sub>O, Cu + 8 H<sub>2</sub>O (B. 34, 1952).  
 31) isom. 2-Isopropyl-1-Methylbenzol-2-Sulfonsäure. Ba (B. 34, 1953).  
 32)  $\beta$ -[2,5-Dimethylphenyl]sulfon- $\alpha$ -Oxyäthan. Fl. (J. pr. [2] 66, 136 C. 1902 [2] 796).
- $C_{10}H_{14}O_4N_2$  4) Phenylhydrazid d. 1-Erythronsäure. Sm. 127° (B. 34, 1369).
- $C_{10}H_{14}O_4S$  16) 4-[ $\beta$ -Oxyäthyl]-1,3-Dimethylbenzol-5-Sulfonsäure. K (B. 35, 3762 C. 1902 [2] 1453).
- $C_{10}H_{14}O_5N_2$  3) Dimethylester d. 5-Acetyl-4-Methyl-4,5-Dihydropyrazol-3,5-Dicarbonsäure. Sm. 85° (B. 35, 789 C. 1902 [1] 761).

- $C_{10}H_{14}O_8S$  2) 2-Methoxyl-4-Methylphenylester d. Aethylschwefelsäure. Sd. 220° (D.R.P. 75456). — \*II, 579.
- $C_{10}H_{14}NCl$  \*3) 3-Chlor-1-Diäthylamidobenzol. Sd. 251,5° (B. 35, 3543 C. 1902 [2] 1504).
- $C_{10}H_{14}N_2S$  12) Methylläther d. Phenylimidodimethylamidomerkaptomethan. Sd. 154—155°<sub>12</sub>. HJ (B. 35, 3379 C. 1902 [2] 1363).
- $C_{10}H_{15}ON$  \*30) Pseudoephedrin. Sm. 116—117°. HCl (Ar. 240, 484 C. 1902 [2] 1326).
- 40) Ephedrin. Sm. 40°. HCl, (2HCl, PtCl<sub>4</sub>) (Ar. 240, 485 C. 1902 [2] 1326).
- 41) Isobutyläther d. 4-Amido-1-Oxybenzol. Fl. HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 1945).
- 42) Oxim d. Aromadendral. Sm. 84° (C. 1901 [2] 1006).
- 43) Oxim d. Limonenon. Sm. 85,5° (Bl. [3] 25, 527).
- 44) Amid d. 1,3-Dimethyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sm. 126—127° (A. 323, 143 C. 1902 [2] 842).
- $C_{10}H_{15}OCl$  \*2) o-Chlorcampher (Soc. 81, 310 C. 1902 [1] 969).
- 9) β-Chlorcampher. Sm. 132,5 (Soc. 81, 272 C. 1902 [1] 660, 809).
- 10) Carvonhydrochlorid. Fl. (B. 20, 488; A. 305, 235). — II, 768; \*II, 461.
- $C_{10}H_{15}OCl_3$  1) ααα-Trichlor-β-Oxy-γ-Dekin. Sd. 166°<sub>20</sub> (C. r. 134, 356 C. 1902 [1] 629).
- $C_{10}H_{15}OBr$  \*2) o-Bromcampher (Soc. 81, 310 C. 1902 [1] 969).
- 9) β-Bromcampher. Sm. 79° (78°) (C. 1902 [1] 196; Soc. 81, 1464; Soc. 81, 269 C. 1902 [1] 659, 809).
- 10) Carvonhydrobromid. Sm. 32° (B. 20, 2071; 27, 811; A. 305, 235). — II, 768; \*II, 462.
- $C_{10}H_{15}O_2N$  \*21) Imid d. Camphersäure (C. 1901 [2] 1286; B. 34, 3277).
- 27) 3-Aethyl-4-[ββ'-Dioxyisopropyl]pyridin + xH<sub>2</sub>O. Sm. 58° (102 bis 103° wasserfrei). HCl, (2HCl, PtCl<sub>4</sub>) (B. 35, 1351 C. 1902 [1] 1110).
- 28) 1-Nitrocampphen. Sm. 56° (Soc. 79, 646).
- 29) Terpinenoxydoxid. Sm. 85° (B. 34, 714).
- 30) Oxim d. Oxyketon C<sub>10</sub>H<sub>14</sub>O<sub>2</sub> (aus Campherchinon). Sm. 122—123° (B. 35, 3838 C. 1902 [2] 1462).
- 31) Verbindung (aus Terpinenoxydoxid). Fl. (B. 34, 715).
- $C_{10}H_{15}O_2Cl$  2) Verbindung (aus d. Oxyketon C<sub>10</sub>H<sub>14</sub>O<sub>2</sub> u. HCl). Sm. 130—133° u. Zers. (B. 35, 3840 C. 1902 [2] 1462).
- $C_{10}H_{15}O_2Br$  3) γ-Bromdihydrocampholenlaktone. Sm. 146° (Bl. [3] 27, 404 C. 1902 [1] 1334).
- \*6) Laktone (aus Fencholensäure). Sm. 76—80° (A. 315, 279).
- 8) Verbindung (aus d. Oxyketon C<sub>10</sub>H<sub>14</sub>O<sub>2</sub> u. HBr). Sm. 163° (B. 35, 3840 C. 1902 [2] 1462).
- $C_{10}H_{15}O_2As$  1) Diäthylester d. Phenylarsinigesäure. Sd. 122°<sub>15</sub> (A. 320, 287 C. 1902 [1] 919).
- $C_{10}H_{15}O_3N$  \*3) α-Nitrocamppher (Soc. 81, 312 C. 1902 [1] 969; Soc. 81, 868 C. 1902 [2] 51).
- \*5) Camphonitrosophenol (Camphonitrophenol). Sm. 70° (223° wasserfrei). Na + 2H<sub>2</sub>O (G. 32 [2] 35 C. 1902 [2] 897).
- \*20) Amid d. Camphansäure (Soc. 79, 1289).
- \*21) Monoxim d. Camphersäureanhydrid (Soc. 81, 314 C. 1902 [1] 969).
- 25) Adrenalin (C. 1901 [2] 1354).
- 26) Aethylester d. 3,5-Dimethylisoxazol-4-[Aethyl-α-Carbonsäure]. Sd. 143—145°<sub>21</sub> (C. r. 134, 180 C. 1902 [1] 457).
- 27) Aethylester d. 3,5-Dimethylisoxazol-4-[Aethyl-β-Carbonsäure]. Sd. 157—158°<sub>23</sub> (C. 1902 [2] 346).
- $C_{10}H_{15}O_3N_3$  \*2) Semicarbazontrimethyldicyklopentancarbonsäure. Sm. 230° u. Zers. (Soc. 79, 787).
- 3) 1-Amid d. 3,5-Dimethylpyrazol-1-Carbonsäure-4-Methylcarbon-säureäthylester. Sm. 121—122° (Bl. [3] 25, 647).
- $C_{10}H_{15}O_3As$  1) 4-tert. Butylphenylarsinsäure. Sm. 193° (A. 320, 342 C. 1902 [1] 923).
- 2) Trimethylphenylarsoniumhydrat-4-Carbonsäure. Salze siehe (A. 320, 315 C. 1902 [1] 921).
- 3) Diäthylester d. Phenylarsinsäure. Sd. 168—170°<sub>15</sub> (A. 320, 294 C. 1902 [1] 920).
- $C_{10}H_{15}O_4N$  9) Aethylester d. Pilopininsäure. Sd. 262°<sub>10</sub> (Soc. 79, 588).

- $C_{10}H_{16}O_4N$  10) Diäthylester d.  $\alpha$ -Cyanpropan- $\alpha\alpha$ -Dicarbonsäure. Sd. 142—145°<sub>30</sub> (C. 1901 [1] 675).
- $C_{10}H_{16}O_4Br$  8)  $\beta$ -Bromcamphersäure. Sm. 208—210° u. Zers. (C. 1902 [1] 119; Soc. 81, 1467 C. 1902 [2] 1466).
- $C_{10}H_{15}O_5N$  4) Nitrit d. Säure  $C_{10}H_{16}O_5$  (aus Camphen). Sm. 140—141° (C. 1901 [2] 346).
- 5) Säure (aus  $\alpha$ -Isocinchonin). (2HCl, PtCl<sub>4</sub>) (M. 22, 1095 C. 1902 [1] 480).
- $C_{10}H_{15}O_6Br$  1) Triäthylester d. Brommethantricarbonsäure. Sd. 162—163°<sub>16</sub> (C. 1902 [2] 578).
- $C_{10}H_{16}ON_2$  12) 4-Amidophenyläther d.  $\beta$ -Dimethylamido- $\alpha$ -Oxyäthan (D.R.P. 88502). — \*II, 398.
- $C_{10}H_{16}O_2N_2$  \*4) stab. Camphenylnitramin. Sm. 39° (B. 35, 260).
- \*5) Fenchonnitrimin (B. 34, 3784 C. 1902 [1] 42).
- 12) lab. Camphenylnitramin. Sm. 65—70° (57°) (G. 26 [2] 32; B. 35, 260).
- 13) Verbindung (aus d. Verb.  $C_{10}H_{17}O_2N_2Br$ ). Sm. 208° u. Zers. (2HCl, PtCl<sub>4</sub>), Pikrat (Soc. 79, 658).
- $C_{10}H_{16}O_2Br_2$  4) Methylester d.  $\beta$ -Dibrom-1,3-Dimethylhexahydrobenzol-4-Carbon-säure. Fl. (Soc. 79, 351).
- $C_{10}H_{16}O_3N_2$  7) isom. Phellandrennitrit. Sm. 120—121° (C. 1901 [2] 544).
- 8) Nitrosit d. Parakautschuk. Zers. bei 80—100° (B. 35, 3261 C. 1902 [2] 1258).
- 9) Polyprennitrosit =  $(C_{10}H_{16}O_3N_2)_x$  (B. 35, 1947).
- $C_{10}H_{16}O_3N_4$  C 50,0 — H 6,7 — O 20,0 — N 23,3 — M. G. 240.
- 1) Acetyl-1,3,7-Trimethylpuron. Sm. 184° (B. 34, 287).
- $C_{10}H_{16}O_4N_2$  5) Verbindung (aus Kautschuk). Zers. bei 112°. Na, Ag (B. 35, 1950 C. 1902 [2] 136).
- $C_{10}H_{16}O_4Br_2$  8) Diäthylester d.  $\alpha\delta$ -Dibrombutan- $\alpha\delta$ -Dicarbonsäure. Sm. 65,5 bis 66,5° (B. 35, 2066 C. 1902 [2] 217).
- $C_{10}H_{16}O_5S$  \*2) Campher- $\beta$ -Sulfonsäure (Soc. 81, 1447 C. 1902 [2] 1464).
- $C_{10}H_{16}O_5S$  2) Sulfocamphenolencarbonsäure. Ca, Ba (C. 1902 [2] 210).
- $C_{10}H_{16}O_5Cl_2$  1) Di[ $\beta$ -Chloräthylidenäther] d. Mannit. Sm. 135° (Bl. [3] 25, 586).
- $C_{10}H_{16}NJ$  \*3) Trimethyl-4-Methylphenylammoniumjodid (B. 35, 773 C. 1902 [1] 720).
- $C_{10}H_{16}ClAs$  1) Trimethyl-4-Methylphenylarsoniumchlorid. 2 + PtCl<sub>4</sub> (A. 320, 304 C. 1902 [1] 920).
- $C_{10}H_{16}JAs$  1) Trimethyl-4-Methylphenylarsoniumjodid (A. 320, 304 C. 1902 [1] 920).
- $C_{10}H_{17}ON$  \*13) Oxim d. d-Campher. Sm. 119,5° (C. 1901 [1] 1002).
- \*20) Oxim d. Carvenon. Sm. 90—91° (A. 314, 379).
- \*32) Isooxim d. d-Fenchon (Laktam d. Dihydrofencholensäure). Sm. 136 bis 137° (B. 34, 3782 C. 1902 [1] 43).
- \*52) Amid d.  $\alpha$ -Fencholensäure. Sm. 113—114° (A. 315, 279).
- \*65) Amid d.  $\beta$ -Fencholensäure. Sm. 85—86° (A. 315, 278).
- 68) d-4-Oximido-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 75—77° (B. 34, 1931).
- 69) Oximidomethen (Nitrosomethen). Sm. 67° (63—65°) (J. r. 27, 488; Am. 18, 769). — \*II, 11.
- 70)  $\alpha$ -Camphidon. Sm. 230—232°. Pikrat (B. 34, 3280).
- 71)  $\beta$ -Camphidon + H<sub>2</sub>O. Sm. 215—225° (wasserfrei); Sd. 307—308°<sub>757</sub>. Pikrat (B. 34, 3282; C. 1901 [2] 1286).
- 72) Oxim d. Lippial. Sd. 118—120°<sub>10</sub> (C. 1901 [1] 712).
- 73) 5-Methyl-2-[ $\delta$ -Methylamyl]isoxazol. Sd. 126—128°<sub>27</sub> (Bl. [3] 27, 65 C. 1902 [1] 566).
- 74) Oxim d. Aldehyd  $C_{10}H_{16}O$  (aus Myrcenol). Sd. 148—150°<sub>10</sub> (Bl. [3] 25, 689).
- 75) Base (aus Terpinenoxydoxim). Sd. 140—150°<sub>30</sub> (B. 34, 716).
- 76) Nitril d. Oxydihydrofencholensäure. Sd. 154°<sub>23</sub> (B. 34, 3781 C. 1902 [1] 43).
- 77) Verbindung (aus Amidocamphenolensäurehydrochlorid). Sm. 228—230° (G. 26 [1] 419). — \*I, 665.
- $C_{10}H_{17}ON_3$  7) 2-[ $\alpha$ -Semicarbazonyl]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 164—165° (C. 1902 [1] 1294; B. 35, 2151 C. 1902 [2] 279; A. 324, 89 C. 1902 [2] 1201).

- $C_{10}H_{17}ON$  8) 4-Semicarbazon-1,1,5-Trimethyl-1,2,3,4-Tetrahydrobenzol (Semicarbazon d. Trimethylcyklohexanon). Sm. 158—159° (*C.* 1902 [1] 1295; *A.* 324, 105 *C.* 1902 [2] 1200).
- 9) Semicarbazon d. D-d-Fenchocamphoron. Sm. 210—212° (*A.* 302, 383). — \*I, 827.
- 10) Semicarbazon d. D-l-Fenchocamphoron. Sm. 204—206° (*A.* 302, 384). — \*I, 827.
- 11) Semicarbazon d. Pulegenon. Sm. 183—184° (*C.* 1902 [1] 1295).
- 12) Semicarbazon d. Keton  $C_9H_{11}O$  (aus Atlascederöl). Sm. 159—160° (*C. r.* 135, 583 *C.* 1902 [2] 1257).
- 13) Semicarbazon d. Isolauronolaldehyd. Sm. 212° (*A. ch.* [7] 18, 213). — \*I, 825.
- $C_{10}H_{17}O_2N$  \*24) Nitrocamphan. Sm. 157° (*Soc.* 81, 870 *C.* 1902 [2] 51).
- 30) Monooxim d. 3-Keto-4-Acetyl-1,4-Dimethylhexahydrobenzol. Sm. 122—123° (*Bl.* [3] 25, 198).
- 31) Oximidooxypinen. Sm. 138,5° (*B.* 35, 2996 *C.* 1902 [2] 1048).
- 32) Oxim d. isom. Oxycampher (aus Oxycampheräthyläther). Sm. 83—84° (*B.* 35, 3817 *C.* 1902 [2] 1459).
- 33) Lupininsäure +  $3H_2O$ . Sm. 255° (wasserfrei). HCl, (2HCl, PtCl<sub>4</sub> +  $3H_2O$ ), (HCl, AuCl<sub>3</sub>) (*B.* 35, 1919 *C.* 1902 [2] 132).
- 34) Amid d. Dihydroketocampholensäure. Sm. 236° (*Bl.* [3] 27, 410 *C.* 1902 [1] 1335).
- $C_{10}H_{17}O_2Cl$  6) Aethylester d.  $\beta$ -Chlor- $\beta$ -Hepten- $\alpha$ -Carbonsäure. Sd. 118—128°<sub>10</sub> (*C.* 1901 [1] 1149).
- $C_{10}H_{17}O_2Br$  7) Methyl ester d. 1-Brom-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sd. 160—165°<sub>30</sub> (*Soc.* 79, 350). — \*II, 708.
- 8) Methyl ester d. 4-Brom-1,3-Dimethylhexahydrobenzol-4-Carbonsäure. Sd. 143—146°<sub>35-38</sub> (*Soc.* 79, 358). — \*II, 708.
- $C_{10}H_{17}O_3N$  \*7) Isothujaketoximsäure. Sm. 155—156° (*A.* 323, 337 *C.* 1902 [2] 1204).
- \*15) Oxim d. Ketolakton  $C_{10}H_{15}O_3$  (aus Thujamenthon). Sm. 158—159° (*A.* 323, 360 *C.* 1902 [2] 1206).
- 31) Methyl ester d. r-Ecgonin. Sm. 125° (*B.* 34, 1461).
- $C_{10}H_{17}O_4N$  \*2) 5-Amid d. 5-Oxy-1,1,2-Trimethyl-R-Pentamethylen-2,5-Dicarbonsäure (Camphanaminsäure, Oxycampheraminsäure). Sm. 160° (*Soc.* 79, 1290).
- 14) Dimethylester d. 1-Methylhexahydropyridin-2,6-Dicarbonsäure. Sd. 140—141°<sub>13</sub> (*B.* 35, 2072 *C.* 1902 [2] 218).
- 15) Diäthylester d. Propen- $\alpha$ -Carbonsäure- $\beta$ -Amidoessigsäure (Acetessigester-Glykocoll ester). Sm. 53° (*B.* 34, 437).
- $C_{10}H_{17}O_4Br$  6) Diäthylester d.  $\beta$ -Brombutan- $\beta\gamma$ -Dicarbonsäure. Sd. 159—164°<sub>70</sub> (*Soc.* 81, 49 *C.* 1902 [1] 411).
- $C_{10}H_{17}O_5N_3$  \*1)  $\alpha$ -Antipepton. Ba, Zn (*B.* 34, 504; *H.* 35, 175 *C.* 1902 [1] 1238).
- $C_{10}H_{18}ON_2$  13)  $\alpha$ -Amidocampheroxim. Sm. 144—145°. HCl +  $H_2O$ , (2HCl, PtCl<sub>4</sub>) (*Soc.* 81, 550 *C.* 1902 [1] 1057, 1334).
- 14) Nitrosocamphidin (*B.* 34, 3285).
- 15) 5-Keto-4-Aethyl-3-Amyl-4,5-Dihydropyrazol. Sm. 136° (*C. r.* 135, 110 *C.* 1902 [2] 512).
- 16) Katin (*C.* 1901 [1] 639).
- 17) Harnstoff d. Base  $C_9H_{17}N$  (aus Fenchocamphoronsäurenitril). Sm. 131 bis 132° (*A.* 315, 290).
- $C_{10}H_{18}O_2N_2$  15) d-2,6-Dioximido-4-Isopropyl-1-Methylhexahydrobenzol. Sm. 194 bis 196° u. Zers. (*B.* 34, 1932).
- $C_{10}H_{18}O_3Hg$  1) Quecksilbercineolhydroxyd. Oxalat (*B.* 35, 3177 *C.* 1902 [2] 1203).
- $C_{10}H_{18}O_3N_2$  6) Aethylester d. 3-Ureidohexahydrobenzol-1-Carbonsäure. Sm. 141° (*A.* 319, 332 *C.* 1902 [1] 350).
- $C_{10}H_{18}O_4N_2$  8) Menthennitrosat. Sm. 97,5—98°. — \*II, II.
- 9) 3,6-Diketo-2,5-Di-[ $\beta$ -Oxypropyl]hexahydro-1,3-Diazin (Di- $\beta$ -Oxypropyldiacipiperazin). Sm. 223—225° (*B.* 35, 3799 *C.* 1902 [2] 1415).
- 10) Aethylester d.  $\delta$ -Oximido- $\gamma$ -[ $\alpha$ -Oximidoäthyl]pentan- $\alpha$ -Carbonsäure. Sm. 108—110° *C.* 1902 [2] 346).
- 11) Aethylester d.  $\delta$ -Oximido- $\gamma$ -[ $\alpha$ -Oximidoäthyl]pentan- $\beta$ -Carbonsäure. Sm. 133° (*C. r.* 134, 180 *C.* 1902 [1] 457).
- $C_{10}H_{19}ON$  \*14) Oxim d. i-Menthon. Sm. 78—80° (*B.* 34, 3797 *C.* 1902 [1] 26).



- C<sub>10</sub>H<sub>19</sub>ON** \*17)  $\beta$ -Isooxim d. i-Tetrahydrocarvon. Sm. 104°. HCl, (A. 323, 325 C. 1902 [2] 1111).
- \*18) Oxim d. Thuja menthon. Sm. 95° (A. 323, 353 C. 1902 [2] 1205).
- \*19) isom. Oxim d. Thuja menthon. Sm. 116—117°; Sd. 160—170°<sub>11</sub> (A. 323, 355 C. 1902 [2] 1205).
- 38) 4-Oximido-3-Isobutyl-1-Methyl-R-Pentamethylen. Sm. 92° (A. 317, 87).
- 39) Lupinin. Sm. 68,5—69,2°; Sd. 255—257°. (2HCl, PtCl<sub>4</sub> + H<sub>2</sub>O) (A. 240, 335 C. 1902 [2] 650; B. 35, 1914 C. 1902 [2] 132).
- 40) Amid d.  $\zeta$ -Methyl- $\beta$ -Hepten- $\varepsilon$ -Methylcarbonsäure. Sm. 63—64° A. 323, 332 C. 1902 [2] 1112).
- 41) Amid d. Dihydrofencholensäure. Sm. 130,5°; subl. bei 107° (B. 34, 3779 C. 1902 [1] 43).
- C<sub>10</sub>H<sub>19</sub>ON<sub>3</sub>** 7) 4-Semicarbazon-1,1,3-Trimethylhexahydrobenzol. Sm. 164—165° (A. 324, 107 C. 1902 [2] 1201).
- 8) 4-Semicarbazon-3-Isopropyl-1-Methyl-R-Pentamethylen. Sm. 182° (A. 317, 89).
- 9) Semicarbazon d. Dihydropulegenon. Sm. 176—178° (C. 1902 [1] 1295).
- C<sub>10</sub>H<sub>19</sub>OCl** \*4) Chlorid d.  $\beta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sd. 89°<sub>13</sub> (A. 318, 160).
- C<sub>10</sub>H<sub>19</sub>O<sub>2</sub>N** 18) Amid d. Oxydihydrofencholensäure. Sm. 78° (B. 34, 3781 C. 1902 [1] 43).
- C<sub>10</sub>H<sub>19</sub>O<sub>2</sub>N<sub>8</sub>** C 56,4 — H 8,9 — O 15,0 — N 19,7 — M. G. 213.
- 1) 1-Oxy-4-[ $\alpha$ -Semicarbazonäthyl]-1-Methylhexahydrobenzol. Sm. 195 bis 196° (C. 1901 [1] 1008; B. 35, 2152 C. 1902 [2] 279).
- C<sub>10</sub>H<sub>19</sub>O<sub>2</sub>N<sub>3</sub>** \*1)  $\varepsilon$ -Semicarbazon- $\gamma$ -Dimethylhexan- $\alpha$ -Carbonsäure. Sm. 196—197° (A. 324, 109 C. 1902 [2] 1201).
- 5)  $\varepsilon$ -Semicarbazon- $\beta$ -Methylhexan- $\gamma$ -Methylcarbonsäure. Sm. 144° u. Zers. (Soc. 81, 681 C. 1902 [2] 115).
- 6) Semicarbazon d. Ketonsäure C<sub>9</sub>H<sub>16</sub>O<sub>3</sub> (aus Isothujon). Sm. 154 bis 156° (A. 323, 340 C. 1902 [2] 1204).
- 7) Semicarbazon d. Ketonsäure C<sub>9</sub>H<sub>16</sub>O<sub>3</sub> (aus Pulegen) Sm. 164° (C. 1902 [1] 1295).
- C<sub>10</sub>H<sub>19</sub>O<sub>4</sub>N** 8) Methylhydroxyd d. 1-Ecgonin + H<sub>2</sub>O. Salze siehe (J. pr. [2] 65, 92 C. 1902 [1] 595).
- C<sub>10</sub>H<sub>19</sub>O<sub>6</sub>P** 1) Di[ $\alpha$ -Acetoxyisopropyl]unterphosphorigesäure. Sm. 171° (C. r. 133, 819 C. 1902 [1] 21).
- C<sub>10</sub>H<sub>19</sub>O<sub>6</sub>P** 1) Phosphat d.  $\alpha$ -Oxy- $\beta$ -Methylpropan- $\beta$ -Carbonsäure + H<sub>2</sub>O. Sm. 147° (C. r. 134, 1114 C. 1902 [2] 25).
- C<sub>10</sub>H<sub>19</sub>NS<sub>2</sub>** 1) Camphelylamidodithioameisensäure (Camphelylamin Salz) (G. 23 [2] 503). — \*I, 717.
- C<sub>10</sub>H<sub>20</sub>ON<sub>2</sub>** 12) 5-Ureïdomethyl-1,1,2-Trimethyl-R-Pentamethylen. Sm. 107—108° (Bl. [3] 27, 74 C. 1902 [1] 585).
- 13) 3-Acetylamido-2,2,5,5-Tetramethyltetrahydropyrrol. Sm. 70°; Sd. 155°<sub>13</sub> (A. 322, 100 C. 1902 [2] 126).
- 14) Nitrosoderivat d. Base C<sub>10</sub>H<sub>21</sub>N. Sd. 150—155° (A. 324, 291 C. 1902 [2] 1506).
- C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>N<sub>2</sub>** 12)  $\delta$ -Dioximido- $\beta$ - $\gamma$ -Dimethyloktan. Sm. 195° (J. pr. [2] 63, 369; G. 31 [1] 463).
- 11) d-6-Oximido-2-Oxamido-4-Isopropyl-1-Methylhexahydrobenzol +  $\frac{1}{2}$ H<sub>2</sub>O. Sm. 95—97° (B. 34, 1932).
- 12) Oxaminoxim d. Carvotanacetone +  $\frac{1}{2}$ H<sub>2</sub>O. Sm. 162° (B. 34, 1935).
- 13) Di[ $\gamma$ -Oxy- $\beta$ -Dimethylpropyliden]hydrazin. Sm. 150° (M. 23, 471 C. 1902 [2] 340).
- 14) s-Diisovalerylhydrazin. Sm. 182° (184°) (B. 34, 188; J. pr. [2] 64, 414 C. 1902 [1] 23).
- 15) Di[Butylamid] d. Oxalsäure. Sm. 153° (A. ch. [7] 3, 294). — \*I, 760.
- C<sub>10</sub>H<sub>20</sub>O<sub>2</sub>N<sub>6</sub>** 3)  $\gamma$ -Disemicarbazon- $\beta$ -Methylheptan. Sm. 197—198° (B. 35, 1182 C. 1902 [1] 1010).
- C<sub>10</sub>H<sub>20</sub>O<sub>3</sub>N<sub>6</sub>** C 44,1 — H 7,3 — O 17,6 — N 30,9 — M. G. 272.
- 1)  $\gamma$ -Disemicarbazon- $\beta$ -Oxy- $\beta$ -Methylheptan. Sm. 226° u. Zers. (B. 35, 1182 C. 1902 [1] 1010).
- C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>N<sub>2</sub>** 6) Di[ $\beta$ -Oxybutylamid] d. Oxalsäure. Sm. 198° (C. 1902 [1] 716).
- C<sub>10</sub>H<sub>20</sub>O<sub>6</sub>N<sub>4</sub>** C 41,1 — H 6,8 — O 32,9 — N 19,2 — M. G. 292.

- $C_{10}H_{20}O_6N_4$  1) bim. Trimethyläthylennitrosit. Sm. 75—76° (*B.* 35, 2330 *C.* 1902 [2] 432).
- $C_{10}H_{20}O_6S_2$  2)  $\beta\beta$ -Di[Äthylsulfon]- $\alpha\alpha$ -Dimethylbuttersäure. Sm. 102—103°. *Ba* (*B.* 34, 2670).  
C 37,0 — H 6,2 — O 39,5 — N 17,3 — M. G. 324.
- $C_{10}H_{20}O_8N_4$  1) bim. Trimethyläthylennitrosat. Sm. 98—99° (*B.* 35, 2339 *C.* 1902 [2] 433; *B.* 35, 3721 *C.* 1902 [2] 1403).
- $C_{10}H_{20}NCl$  4) Chlormethylat d. 1-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. +  $AuCl_3$  (*A.* 317, 230).
- $C_{10}H_{20}NJ$  \*1) Jodmethylat d. 2-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sm. 236—240° u. Zers. (*A.* 317, 300).  
3) Jodmethylat d. 1-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sm. 162—163° u. Zers. (*B.* 34, 132; *A.* 317, 229, 246, 291).  
4) Jodmethylat d. 3-Dimethylamido-2,3,4,5-Tetrahydro-R-Hepten. Sm. 226—227° u. Zers. (*B.* 34, 137; *A.* 317, 289).  
5) Jodmethylat d. Methylgranatanin (*G.* 32 [1] 264 *C.* 1902 [1] 1234).
- $C_{10}H_{20}N_2S_2$  4) 1, 2, 2, 5, 5-Pentamethyltetrahydropyrrol-3-Amidodithioameisensäure. Sm. 103° (*A.* 322, 111 *C.* 1902 [2] 127).  
5) isom. 1, 2, 2, 5, 5-Pentamethyltetrahydropyrrol-3-Amidodithioameisensäure. Sm. 172° (*A.* 322, 113 *C.* 1902 [2] 127).
- $C_{10}H_{20}N_2S_4$  2) Disulfid d. Isobutylamidodithioameisensäure (Diisobutylthiuramdisulfid. Sm. 51° (*B.* 35, 821 *C.* 1902 [1] 712).
- $C_{10}H_{21}ON$  \*17) Amid d.  $\beta\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sm. 112° (*A.* 318, 160).  
18) Amid d. Nonan- $\beta$ -Carbonsäure. Sm. 76° (*C.* r. 135, 174 *C.* 1902 [2] 567).
- $C_{10}H_{21}ON_3$  2)  $\beta$ -Semicarbazonnonan. Sm. 118—119° (*C.* 1901 [1] 525, 1006).  
3)  $\gamma$ -Semicarbazon- $\beta\zeta$ -Dimethylheptan. Sm. 98—99° (*C.* 1901 [1] 724).  
4)  $\delta$ -Semicarbazon- $\beta\zeta$ -Dimethylheptan. Sm. 108—109° (106—107°) (*B.* 34, 2121; *A.* 318, 169).  
5) Semicarbazon eines Keton  $C_9H_{18}O$ . Sm. 106—107° (*B.* 34, 2121).  
6) Semicarbazon d. Aldehyd  $C_9H_{18}O$  (aus Citronenöl). Sm. 89,5° (*B.* 34, 2810).
- $C_{10}H_{21}O_2N$  \*9)  $\zeta$ -Amido- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäure (*A.* 323, 325 *C.* 1902 [2] 1111).
- $C_{10}H_{21}NS_2$  1) Diäthyläther d. Isoamylimidodimerkaptomethan. Sd. 260°. (2HCl,  $PtCl_4$ ) (*C.* r. 134, 110 *C.* 1902 [1] 413).  
2) Propylester d. Dipropylamidodithioameisensäure. Sd. 159—160°<sub>10</sub> (*B.* 35, 3380 *C.* 1902 [2] 1363).
- $C_{10}H_{22}NCl$  5)  $\alpha$ -Chlormethylat d.  $\rho$ -Tetramethylhexahydropyridin. +  $AuCl_3$  (*A.* 319, 85).  
6)  $\beta$ -Chlormethylat d.  $\rho$ -Tetramethylhexahydropyridin. +  $AuCl_3$  (*A.* 319, 85).
- $C_{10}H_{22}NJ$  7) Jodmethylat d. Dimethylamido-R-Heptamethylen. Sm. 259° u. Zers. (*A.* 317, 220, 306; *B.* 34, 138).  
8)  $\alpha$ -Jodmethylat d.  $\rho$ -Tetramethylhexahydropyridin. Sm. 238° (*A.* 319, 85).  
9)  $\beta$ -Jodmethylat d.  $\rho$ -Tetramethylhexahydropyridin. Sm. 159—160° (*A.* 319, 85).
- $C_{10}H_{21}NS_2$  1) Diäthyläther d. Isoamylimidodimerkaptomethan. Sd. 175—180°<sub>77</sub> (*Bl.* [3] 27, 63 *C.* 1902 [1] 577).
- $C_{10}H_{23}ON$  2)  $\beta$ -Oxyäthylidiisobutylamin. Sd. 213—214°<sub>754</sub>. (HCl,  $AuCl_3$ ), Pikrat, Pikrolonat (*A.* 316, 313).  
3) Base (aus Menthonisooxim) oder  $C_{10}H_{21}ON$ . Sd. 140—142°<sub>10</sub> (*A.* 324, 303 *C.* 1902 [2] 1507).
- $C_{10}H_{23}O_2N$  4) Hexylidi[ $\beta$ -Oxyäthyl]amin. Sd. 295—300°<sub>751</sub>. Pikrolonat (*A.* 315, 130).
- $C_{10}H_{23}NJ_2$  1) Jodmethyltripropylammoniumjodid. Sm. 177° (*B.* 35, 3053 *C.* 1902 [2] 1127).
- $C_{10}H_{24}NJ$  3) Methyltripropylammoniumjodid. Zers. bei 207—208° (*B.* 35, 774 *C.* 1902 [1] 720).
- $C_{10}H_{24}N_3J$  1) Jodmethylat d. 1,3,5-Triäthylhexahydro-1,3,5-Triazin. Sm. 97—98° (*B.* 35, 2943 *C.* 1902 [2] 1036).

- $C_{10}HON_3Cl_9$  \*1) Verbindung (aus Pyridin) (*Soc.* 79, 902).
- $C_{10}HO_2N_2Cl_7$  1) Verbindung (aus d. Verb.  $C_{10}HON_3Cl_9$ ). Sm. 146—147° (*Soc.* 79, 903).
- $C_{10}H_4O_2NCl_3$  1) 1,4,4-Trichlor-2,3,5-Triketo-1-Pyridyl-R-Pentamethylen. HCl (*C. r.* 133, 938 *C.* 1902 [1] 207).
- $C_{10}H_4O_4N_2Cl_2$  9) *p*-Dichlor-1,5-Dinitronaphtalin. Sm. 175° (D.R.P. 134306 *C.* 1902 [2] 918).
- 10) isom. *p*-Dichlor-1,5-Dinitronaphtalin. Sm. 106—107° (D.R.P. 134306 *C.* 1902 [2] 918).
- 11) *p*-Dichlor-1,8-Dinitronaphtalin. Sm. 206—207° (D.R.P. 134306 *C.* 1902 [2] 918).
- 12) isom. *p*-Dichlor-1,8-Dinitronaphtalin. Sm. 120° (D.R.P. 134306 *C.* 1902 [2] 918).
- $C_{10}H_4O_4N_3Cl$  1) 2-Chlor-1,6,8-Trinitronaphtalin. Sm. 145° (*B.* 34, 1818).
- $C_{10}H_5O_2NCl_2$  10) 1,7-Dichlor-*p*-Nitronaphtalin. Sm. 138° (*A.* 323, 119 *C.* 1902 [2] 799).
- $C_{10}H_5O_4N_2Cl$  \*2) 1-Chlor-4,8-Dinitronaphtalin. Sm. 138° (*B.* 35, 2810 *C.* 1902 [2] 1119).
- 3) 2-Chlor-*p*-Dinitronaphtalin. Sm. 174° (*B.* 34, 1815).
- 4) 2-Chlor-*p*-Dinitronaphtalin. Sm. 175° (*B.* 34, 1817).
- 5) *p*-Dichlor-1,8-Dinitronaphtalin. Sm. 164° (D.R.P. 134306 *C.* 1902 [2] 918).
- 6) isom. *p*-Dichlor-1,8-Dinitronaphtalin. Sm. 132° (D.R.P. 134306 *C.* 1902 [2] 918).
- $C_{10}H_5O_4N_2Br$  \*1) 1-Brom-4,5-Dinitronaphtalin. Sm. 170° (*B.* 35, 2805 *C.* 1902 [2] 1118).
- $C_{10}H_5ONCl$  5) Chlorid d. Chinolin-4-Carbonsäure. Sm. 190°. HCl (*M.* 22, 115).
- $C_{10}H_5O_2NCl$  \*2) 1-Chlor-5-Nitronaphtalin (*C.* 1901 [1] 1219).
- \*3) 1-Chlor-8-Nitronaphtalin. Sm. 94° (*C.* 1901 [1] 1219; *B.* 35, 2808 *C.* 1902 [2] 1119).
- \*4) 2-Chlor-8-Nitronaphtalin. Sm. 110° (*B.* 34, 1814).
- 12)  $\alpha$ -Cyan- $\beta$ -[4-Chlorphenyl]akrylsäure. Sm. 196°. Ag (*J. pr.* [2] 65, 285 *C.* 1902 [1] 1216).
- $C_{10}H_6O_2NBr$  \*4) 1-Brom-5-Nitronaphtalin. Sm. 122,5° (*B.* 35, 2803 *C.* 1902 [2] 1118).
- $C_{10}H_6O_4N_2S$  \*1) 1,8-Dinitronaphtalin-3-Sulfonsäure. Ba + 5 H<sub>2</sub>O, Fe, Ag (*C.* 1901 [1] 286; *B.* 35, 3403 *C.* 1902 [2] 1321).
- 2) 1,5-Dinitronaphtalin-3-Sulfonsäure (*C.* 1901 [1] 286).
- $C_{10}H_6O_{10}N_2S_2$  4) 1,5-Dinitronaphtalin-3,6-Disulfonsäure (*C.* 1901 [2] 1374).
- 5) 1,6-Dinitronaphtalin-4,8-Disulfonsäure. Na<sub>2</sub> (D.R.P. 72665). — \*II, 105.
- $C_{10}H_7O_2NCl_2$  1)  $\alpha\beta$ -Dichlor- $\gamma$ -Phenylimidopropen- $\alpha$ -Carbonsäure (Anilmukochlor-säure). Zers. 132° (*B.* 34, 513).
- $C_{10}H_7O_2NBr_2$  8)  $\alpha\beta$ -Dibrom- $\gamma$ -Phenylimidopropen- $\alpha$ -Carbonsäure (Anilmukobrom-säure). Zers. 126°. Ag (*B.* 34, 512).
- $C_{10}H_7O_2NBr_4$  4) 2,3,4,6-Tetrabromphenylimid d. Essigsäure. Sm. 164° (*Soc.* 81, 499 *C.* 1902 [1] 864).
- $C_{10}H_7O_2N_2Cl$  3) 2-Chlor-*p*-Nitro-8-Methylchinolin. Sm. 232° (*B.* 35, 3679 *C.* 1902 [2] 1474).
- $C_{10}H_7O_4N_2J$  1) *p*-Jod-*p*-Nitro-4-Methylchinolin. Sm. 133° (*J. pr.* [2] 66, 229 *C.* 1902 [2] 1132).
- $C_{10}H_7O_3N_2Cl$  1) 7-Oxy-4-Methyl-1,2-Benzpyron-8-Diazochlorid (*B.* 34, 669).
- $C_{10}H_7O_4N_3Br_3$  \*1) 2,4,6-Tribrom-3-Nitro-1-Diacetylamidobenzol. Sm. 175—176° (*Soc.* 81, 503 *C.* 1902 [1] 1053).
- $C_{10}H_7O_6NS$  1) 2-Nitro-1-Oxynaphtalin-4-Sulfonsäure. K, Ba + H<sub>2</sub>O (*B.* 34, 3190). — \*II, 514.
- 2) 6-Nitro-2-Oxynaphtalin-8-Sulfonsäure + 4H<sub>2</sub>O. Na + 6H<sub>2</sub>O, K, Ba + 6 $\frac{1}{2}$ H<sub>2</sub>O (*A.* 323, 122 *C.* 1902 [2] 799).
- $C_{10}H_7O_6N_3S$  2) 6-Nitro-2-Diazonaphtalin-8-Sulfonsäure (*A.* 323, 121 *C.* 1902 [2] 799).
- $C_{10}H_7O_7N_3S$  1) 2,4-Dinitro-1-Amidonaphtalin-7-Sulfonsäure. Na (D.R.P. 87619). — \*II, 345.

- $C_{10}H_7O_7ClS_2$  1) 6-Chlor-1-Oxynaphtalin-3,5-Disulfonsäure (C. 1898 [2] 318). — \*II, 513.
- $C_{10}H_7O_8NS_2$  2) 8-Chlor-1-Oxynaphtalin-3,6-Disulfonsäure. Na, K, Ba +  $6H_2O$  (D.R.P. 79055). — \*II, 513.
- 6) 1-Nitronaphtalin-5,8-Disulfonsäure.  $Na_2$  (D.R.P. 70857). — \*II, 105.
- 7) 2-Nitronaphtalin-4,8-Disulfonsäure.  $Na_2$  (D.R.P. 65997). — \*II, 105.
- $C_{10}H_7O_{11}NS_4$  2) 1,8-Anhydrid d. 1-Amidonaphtalin-2,4,6,8-Tetrasulfonsäure?  $Na_4 + 6H_2O$  (D.R.P. 84140, 84597). — \*II, 348.
- $C_{10}H_5ONCl$  \*12) Methyläther d. 1-Chlor-4-Oxyisochinolin. Sm.  $77^\circ$  (B. 35, 2422 C. 1902 [2] 455).
- 13) Methyläther d. 2-Chlor-8-Oxychinolin. Sm.  $82^\circ$ . HCl, (2HCl  $PtCl_4$ ) (B. 35, 3680 C. 1902 [2] 1474).
- 14) 6-Chlor-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm.  $150^\circ$  (B. 35, 3682 C. 1902 [2] 1475).
- 15) 7-Chlor-2-Keto-1-Methyl-1,2-Dihydrochinolin. Sm.  $139-140^\circ$  (B. 35, 3683 C. 1902 [2] 1475).
- $C_{10}H_8O_2N_2Cl_4$  1) 4,6-Dichlor-1,3-Di[Acetylchloramido]benzol. Sm.  $240^\circ$  u. Zers. (B. 34, 164).
- 2) 2,5-Dichlor-1,4-Di[Acetylchloramido]benzol. Sm.  $163^\circ$  u. Zers. (B. 34, 166).
- $C_{10}H_8O_3N_2Br_2$  \*4)  $\alpha\beta$ -Dibrom- $\gamma$ -Phenylhydrazonerotonsäure (Mucobromsäurephenylhydrazon). Sm.  $105-106^\circ$  u. Zers. (B. 34, 1012).
- $C_{10}H_8O_2N_2Br_4$  1) 4,6-Dibrom-1,3-Di[Acetylbromamido]benzol. Sm.  $172^\circ$  u. Zers. (B. 34, 165).
- $C_{10}H_8O_3N_2S_2$  1) s-Di[2-Thiänoyl]hydrazin. Sm.  $262^\circ$  (J. pr. [2] 65, 13 C. 1902 [1] 459).
- $C_{10}H_8O_4N_2Br_2$  1) 4,6-Dibrom-2-Nitrophenylimid d. Essigsäure. Sm.  $96-97^\circ$  (Soc. 81, 499 C. 1902 [1] 864).
- $C_{10}H_8O_4N_2S$  9) 1-Nitroso-2-Amidonaphtalin-6-Sulfonsäure. Na (D.R.P. 60120). — \*II, 345.
- $C_{10}H_8O_5N_2S$  \*2) 6-Nitro-2-Amidonaphtalin-8-Sulfonsäure.  $NH_4$ , Ba +  $4\frac{1}{2}H_2O$  (A. 323, 119 C. 1902 [2] 799).
- 3) 4-Nitro-1-Amidonaphtalin-5-Sulfonsäure (D.R.P. 133951 C. 1902 [2] 867).
- 4) 5-Nitro-1-Amidonaphtalin-2-Sulfonsäure. Na (D.R.P. 70890). — \*II, 345.
- $C_{10}H_8O_6N_2S$  5) 7-Oxy-4-Methyl-1,2-Benzpyron-8-Diazosulfonsäure. K (B. 34, 670).
- $C_{10}H_8NClBr_2$  3) Nitril d.  $\alpha$ -Chlor- $\beta\gamma$ -Dibrom- $\gamma$ -Phenylbuttersäure. Sm.  $120^\circ$  u. Zers. (A. 319, 209 C. 1902 [1] 108). — \*II, 842.
- $C_{10}H_8NClI_2$  1) Chlormethylat d. 5,7-Dijodchinolin. Sm. oberh.  $250^\circ$  u. Zers. (B. 34, 3349).
- $C_{10}H_8NClS$  1) 6-Chlor-2-Thiocarbonyl-1-Methyl-1,2-Dihydrochinolin. Sm.  $184^\circ$  (B. 35, 3682 C. 1902 [2] 1475).
- $C_{10}H_9ONBr_2$  9) Nitril d. 3,6-Dibrom-4-Oxy-2,5-Dimethylphenylelessigsäure. Sm.  $171^\circ$  (B. 34, 4282 C. 1902 [1] 309).
- $C_{10}H_9ONS$  2) 8-Methyläther d. 2-Merkapto-8-Oxychinolin. Sm.  $211^\circ$  (B. 35, 3681 C. 1902 [2] 1475).
- $C_{10}H_9ONS_2$  1) Benzoylimidomethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan (Benzoylimidomethylenäthylendisulfid). Sm.  $80-81^\circ$  (C. 1902 [1] 1401).
- $C_{10}H_9ON_3S$  3) 5-Acetylamido-2-Phenyl-1,3,4-Thiodiazol. Sm.  $276^\circ$  (Soc. 79, 58).
- $C_{10}H_9O_2NBr_2$  3) 2,6-Dibrom-1-Diacetylamidobenzol. Sm.  $100-101^\circ$  (Soc. 79, 541).
- $C_{10}H_9O_2N_2Br$  5) 4- oder 5-Brom-2,6-Diketo-4-Phenylhexahydro-1,3-Diazin. Sm.  $214^\circ$  u. Zers. (B. 34, 3763 C. 1902 [1] 53).
- 6) 2,4-Diketo-1-[p-Brom-3-Methylphenyl]tetrahydroimidazol. Sm.  $221-222^\circ$  (J. pr. [2] 66, 255 C. 1902 [2] 1125).
- 7) Methylester d. p-Brom-2-Cyanmethyllamidobenzol-1-Carbonsäure. Sm.  $141-142^\circ$  (J. pr. [2] 63, 404).
- $C_{10}H_9O_2N_2Br_3$  3) 4,6-Dibrom-3-Acetylamido-1-Acetylbromamidobenzol. Sm.  $60$  bis  $70^\circ$  u. Zers. (B. 34, 165).
- $C_{10}H_9O_3NS$  \*12) 2-Amidonaphtalin-8-Sulfonsäure (D.R.P. 20760; A. 323, 117 C. 1902 [2] 799).

- $C_{10}H_9O_3NS$  32) 2-Amidonaphtalin-4-Sulfonsäure +  $H_2O$ .  $Na + 4H_2O$ ,  $K + \frac{1}{2}H_2O$  (D.R.P. 78603). — \*II, 344.
- $C_{10}H_9O_4NS$  21) 3-Amido-1-Oxynaphtalin-5-Sulfonsäure (D.R.P. 85241). — \*II, 514.  
 22) 4-Amido-1-Oxynaphtalin-6-Sulfonsäure (D.R.P. 81621). — \*II, 515.  
 23) 4-Amido-1-Oxynaphtalin-7-Sulfonsäure (D.R.P. 81621). — \*II, 515.  
 24) 4-Amido-1-Oxynaphtalin-8-Sulfonsäure (D.R.P. 81621). — \*II, 515.  
 25) 5-Amido-1-Oxynaphtalin-3- oder 7-Sulfonsäure (D.R.P. 73276, 85058). — \*II, 516.  
 26) 5-Amido-1-Oxynaphtalin- $\beta$ -Sulfonsäure (D.R.P. 68564). — \*II, 516.  
 27) 6-Amido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 75469). — \*II, 515.  
 28) 6-Amido-1-Oxynaphtalin-4-Sulfonsäure (D.R.P. 70285). — \*II, 515.  
 29) 8-Amido-1-Oxynaphtalin-2-Sulfonsäure (D.R.P. 54662, 82900, 84951). — \*II, 516.  
 30) 8-Amido-1-Oxynaphtalin-3-Sulfonsäure? (D.R.P. 80853). — \*II, 535.  
 31) 8-Amido-1-Oxynaphtalin-5-Sulfonsäure (D.R.P. 63074, 75317; C. 1901 [1] 1074). — \*II, 516.  
 32) 8-Amido-1-Oxynaphtalin-6-Sulfonsäure (D.R.P. 70780). — \*II, 516.  
 33) 8-Amido-1-Oxynaphtalin-7-Sulfonsäure (D.R.P. 75710). — \*II, 516.  
 34) 3-Amido-2-Oxynaphtalin-7-Sulfonsäure. Ba (C. 1899 [1] 288; D.R.P. 53076, 62964; B. 27, 763). — \*II, 532.  
 35) 4-Amido-2-Oxynaphtalin-7-Sulfonsäure (D.R.P. 82676). — \*II, 533.  
 36) 5-Amido-2-Oxynaphtalin-7-Sulfonsäure (D.R.P. 82676). — \*II, 533.  
 37) 7-Amido-2-Oxynaphtalin- $\beta$ -Sulfonsäure. Na (D.R.P. 131526 C. 1902 [1] 1382).  
 38) 8-Amido-2-Oxynaphtalin-6-Sulfonsäure (oder 4-Amido-2-Oxynaphtalin-6-Sulfonsäure) (D.R.P. 57007, 58352). — \*II, 533.  
 39) 8-Amido-2-Oxynaphtalin- $\beta$ -Sulfonsäure (D.R.P. 75066). — \*II, 533.  
 40)  $\beta$ -Amido-2-Oxynaphtalin- $\beta$ -Sulfonsäure (D.R.P. 63956). — \*II, 533.
- $C_{10}H_9O_4N_2Br$  2) Acetat d. syn- $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 64 bis 65° (B. 34, 1910).
- $C_{10}H_9O_5NS$  8) 7-Amido-1,3-Dioxynaphtalin-6-Sulfonsäure (oder 7-1,6-3-) (D.R.P. 53023). — \*II, 599.  
 9) 8-Amido-1,3-Dioxynaphtalin-6-Sulfonsäure (oder 8-1,6-3-) (D.R.P. 75097). — \*II, 599.
- $C_{10}H_9O_5N_2Cl$  1) Chlorid d. 4,6-Dinitro-1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 154—155° (B. 34, 1828).
- $C_{10}H_9O_6NJ_2$  1) Diacetat d. 5-Jod-3-Nitro-1-Jodosobenzol. Sm. 172° (B. 34, 3407).
- $C_{10}H_9O_6NS_2$  22) 1-Amidonaphtalin-2,4-Disulfonsäure (D.R.P. 92081). — \*II, 346.  
 23) 1-Amidonaphtalin-2,7-Disulfonsäure.  $Na_2$ , Ba (D.R.P. 62634, 76073). — \*II, 346.  
 24) 1-Amidonaphtalin-2,8-Disulfonsäure? (D.R.P. 75710). — \*II, 346.  
 25) 1-Amidonaphtalin-5,7-Disulfonsäure?  $Na + 5H_2O$  (D.R.P. 69555). — \*II, 346.  
 26) 1-Amidonaphtalin-6,8-Disulfonsäure. Na,  $Na_2$  (D.R.P. 75084, 80853, 83146). — \*II, 346.
- $C_{10}H_9O_7NS_2$  10) 5-Amido-1-Oxynaphtalin-3,7-Disulfonsäure (D.R.P. 75432). — \*II, 517.  
 11) 8-Amido-1-Oxynaphtalin-2,4-Disulfonsäure (D.R.P. 62289, 82900). — \*II, 517.  
 12) 8-Amido-1-Oxynaphtalin-3,5-Disulfonsäure (D.R.P. 80741, 99164). — \*II, 517.  
 13) 8-Amido-1-Oxynaphtalin-4,6-Disulfonsäure (D.R.P. 108848). — \*II, 518.  
 14) 8-Amido-1-Oxynaphtalin- $\beta$ -Disulfonsäure (D.R.P. 73048). — \*II, 518.  
 15) 2-Amido- $\beta$ -Oxynaphtalin- $\beta$ -Disulfonsäure (D.R.P. 53023). — \*II, 536.  
 16) 2-Amido- $\beta$ -Oxynaphtalin- $\beta$ -Disulfonsäure (D.R.P. 80878). — \*II, 535.  
 17) 5-Amido-2-Oxynaphtalin-3,7-Disulfonsäure. Na (D.R.P. 84952). — \*II, 535.  
 18) 7-Amido-2-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 75142). — \*II, 535.



- $C_{10}H_9O_8NS_2$  1) 2-Amido-1,8-Dioxynaphtalin-3,6-Disulfonsäure (B. 31, 2158; D.R.P. 77552). — \*II, 597.
- $C_{10}H_9O_9NS_3$  7) 2-Amidonaphtalin-1,5,7-Trisulfonsäure (D.R.P. 80878). — \*II, 348.
- 8) 1-Amidonaphtalin-2,4,7-Trisulfonsäure (D.R.P. 22545, 62634). — \*II, 347.
- 9) 1-Amidonaphtalin-3,7,9-Trisulfonsäure (D.R.P. 75432). — \*II, 348.
- 10) 1-Amidonaphtalin-4,6,8-Trisulfonsäure (D.R.P. 80741, 82563, 83146). — \*II, 348.
- $C_{10}H_9O_{10}NS_4$  1) 8-Amido-1-Oxynaphtalin-3,5,7-Trisulfonsäure (D.R.P. 84597). — \*II, 518.
- $C_{10}H_{10}ONCl$  \*8) Phenylamid d.  $\beta$ -Chlorerotonsäure. Sm. 122—123° (B. 34, 196).
- \*9) Phenylamid d. isom.  $\beta$ -Chlorisocrotonsäure. Sm. 108° (B. 34, 196).
- 11)  $\gamma$ -Oximido- $\alpha$ -[4-Chlorphenyl]- $\alpha$ -Buten (J. pr. [2] 65, 280 C. 1902 [1] 1215).
- $C_{10}H_{10}ON_2S$  \*4) 2-[2-Methylphenyl]imido-4-Ketotetrahydrothiazol (Am. 28, 149 C. 1902 [2] 794).
- \*5) 2-[4-Methylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 183° (Am. 28, 152 C. 1902 [2] 794).
- \*10) 2-Methylphenylamid d. Rhodanessigsäure. Sm. 109° (Am. 28, 147 C. 1902 [2] 794).
- 12) 2-Imido-4-Keto-3-[2-Methylphenyl]tetrahydrothiazol. Sm. 131 bis 132° (Am. 28, 148 C. 1902 [2] 794).
- 13) 2-Imido-4-Keto-3-[4-Methylphenyl]tetrahydrothiazol. Sm. 125 bis 126° (Am. 28, 151 C. 1902 [2] 794).
- 14) 2-Imido-4-Keto-3-Phenyl-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 157°. HCl, (2HCl, PtCl<sub>4</sub>), HJ, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>. — \*II, 200.
- 15) isom. 4-Methylphenylamid d. Rhodanessigsäure. Sm. 85° (Am. 28, 150 C. 1902 [2] 794).
- $C_{10}H_{10}ON_2S_2$  \*2) Methyläther d. 5-Merkapto-2-Keto-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 52° (B. 34, 317).
- $C_{10}H_{10}ON_3Cl$  1) 2,8-Diamido-4-Imido-1-Keto-1,4-Dihydronaphtalin (B. 34, 1226).
- $C_{10}H_{10}OCl_2Br_2$  2) 3,6-Dibrom-4-Keto-1-Dichlormethyl-1,2,5-Trimethyl-1,4-Dihydrobenzol. Sm. 99—100° (B. 35, 468 C. 1902 [1] 647).
- $C_{10}H_{10}O_2NCl$  \*1) Methyl-2-Chloracetylamidophenylketon. Sm. 81° (Ar. 240, 145 C. 1902 [1] 819).
- 7) Acetat d. syn- $\beta$ -Chlor- $\alpha$ -Oximido- $\alpha$ -Phenyläthan. Sm. 67—68° (B. 34, 1904).
- $C_{10}H_{10}O_2NBr$  6) Acetat d. syn- $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -Phenyläthan. Sm. 74—75° (B. 34, 1908).
- $C_{10}H_{10}O_2N_2Cl_2$  \*3) 1,3-Di[Acetylchloramido]benzol. Sm. 160—161° u. Zers. (B. 34, 163).
- 4) 1,2-Di[Acetylchloramido]benzol. Sm. 94° u. Zers. (B. 34, 162).
- 5) 1,4-Di[Acetylchloramido]benzol. Zers. bei 103° (B. 34, 166).
- 6) 4,5-Dichlor-1,2-Di[Acetylamido]benzol. Sm. 290° u. Zers. (B. 34, 163).
- 7) 2,5-Dichlor-1,3-Di[Acetylamido]benzol. Sm. oberh. 260° (Soc. 81, 1383 C. 1902 [2] 1189).
- $C_{10}H_{10}O_2N_2Br_2$  4) 4,5-Dibrom-1,2-Di[Acetylamido]benzol. Sm. 286° u. Zers. (B. 34, 163).
- 5) 1,2-Di[Acetyl bromamido]benzol. Sm. 76—80° u. Zers. (B. 34, 163).
- $C_{10}H_{10}O_3NCl$  8) Chlormethyl-5-Acetylamido-2-Oxyphenylketon. Sm. 190° (B. 34, 128).
- $C_{10}H_{10}O_3N_2S$  16) 2,6-Diamidonaphtalin-8-Disulfonsäure (B. 26, 3033; A. 323, 114 C. 1902 [2] 799).
- 17) 2,5-Anhydrid d. 1-Phenylpyrazol-2-Methoxyhydrat-5-Sulfonsäure (A. 320, 30 C. 1902 [1] 666).
- $C_{10}H_{10}O_4N_2S$  5) 2,7-Diamido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 92012). — \*II, 518.
- 6) 2,8-Diamido-1-Oxynaphtalin-5-Sulfonsäure (D.R.P. 101953 C. 1899 [1] 1143). — \*II, 519.
- 7) 2,3-Diamido-9-Oxynaphtalin-9-Sulfonsäure (D.R.P. 86200). — \*II, 536.
- 8) 4,8-Diamido-2-Oxynaphtalin-6-Sulfonsäure (D.R.P. 91000). — \*II, 533.

- $C_{10}H_{10}O_4ClJ$  2) Diacetat d. 3-Chlor-1-Jodosobenzol. Sm. 154—155° (B. 26, 1949). — \*II, 39.
- $C_{10}H_{10}O_4BrJ$  3) Diacetat d. 4-Chlor-1-Jodosobenzol. Zers. bei 185—190° (B. 26, 1949). — \*II, 39.
- $C_{10}H_{10}O_5N_3Br_2$  1) Diacetat d. 3-Brom-1-Jodosobenzol. Sm. 163—164° (B. 26, 1949). — \*II, 39.
- 2) Äthyläther d.  $\beta\beta$ -Dibrom- $\beta$ -Nitro- $\alpha$ -Oxy- $\alpha$ -[2-Nitrophenyl]äthan. Sm. 70,5° (J. pr. [2] 66, 21 C. 1902 [2] 584).
- 3) Äthyläther d.  $\beta\beta$ -Dibrom- $\beta$ -Nitro- $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]äthan. Sm. 145,5° (J. pr. [2] 66, 20 C. 1902 [2] 584).
- $C_{10}H_{10}O_6N_2S_2$  6) 2,6-Diamidonaphtalin- $\beta$ -Disulfonsäure +  $4\frac{1}{2}H_2O$  (A. 323, 131 C. 1902 [2] 800).
- $C_{10}H_{10}O_7N_2S_2$  1) 2,5-Diamido-1-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 101953 C. 1899 [1] 1143). — \*II, 519.
- 2) 2,8-Diamido-1-Oxynaphtalin-3,5-Disulfonsäure (D.R.P. 101953 C. 1899 [1] 1143). — \*II, 519.
- 3) 2,8-Diamido-1-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 92012). — \*II, 519.
- $C_{10}H_{10}N_2ClJ$  2) 2-Jodmethylat d. 5-Chlor-1-Phenylpyrazol. Sm. 172° (A. 320, 28 C. 1902 [1] 665).
- $C_{10}H_{11}ONBr_2$  5) Methylamid d.  $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionsäure (M. d. Zimmt-säuredibromid). Sm. 214° u. Zers. (Soc. 79, 1355 C. 1902 [1] 25).
- 6) Phenylamid d.  $\alpha\beta$ -Dibrombuttersäure. Sm. 159° (B. 34, 193).
- 7) Phenylamid d. isom.  $\alpha\beta$ -Dibrombuttersäure. Sm. 115° (B. 34, 195).
- $C_{10}H_{11}ONS_2$  \*2) Dimethyläther d. Benzoylimidodimerkaptomethan. Sm. 46° (C. 1901 [2] 275).
- 3) Äthylester d. Benzoylamidodithioameisensäure. Sm. 84° (C. 1901 [2] 275).
- 4) Benzylester d. Acetylamidodithioameisensäure. Sm. 136° (C. 1901 [2] 275).
- $C_{10}H_{11}ON_2Cl$  3)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -Phenylharnstoff. Sm. 151—152° (Soc. 79, 558).
- 4) Isopropylidenedhydrazid d. 3-Chlorbenzol-1-Carbonsäure. Sm. 97° (J. pr. [2] 64, 329).
- 5) Phenylhydrazid d.  $\beta$ -Chlorcrotonsäure. Sm. 130° (B. 34, 197).
- 6) Phenylhydrazid d.  $\beta$ -Chlorisocrotonsäure. Sm. 114° (B. 34, 197).
- $C_{10}H_{11}ON_2Br$  5) Aldehyd d.  $\gamma$ -[4-Bromphenyl]hydrazonbuttersäure. Sm. 135 bis 136° (B. 34, 1497).
- $C_{10}H_{11}O_2NBr_2$  1)  $\beta$ -Dibrom-1- $\beta$ -Nitro-tert. Butylbenzol. Sm. 34—35° (J. r. 27, 427). — \*II, 63.
- $C_{10}H_{11}O_2NS$  5) Dimethyläther d. Benzoylimidomerkaptooxymethan. Fl. (Am. 24, 214). — \*II, 743.
- 6) Äthylester d. Benzoylamidodithioameisensäure. Sm. 105—107° (Am. 24, 214). — \*II, 743.
- 7) Phenylamid d. Acetylmerkaptoessigsäure. Sm. 97—98° (Am. 28, 140 C. 1902 [2] 793).
- $C_{10}H_{11}O_2N_2Cl$  \*2) 2-Chlor-1,4-Di[Acetylamido]benzol. Sm. 197° (C. 1902 [1] 752).
- 7) 5-Chlor-1,3-Di[Acetylamido]benzol. Sm. noch nicht bei 300° (M. 22, 121).
- 8) Äthylester d.  $\alpha$ -Chlor- $\alpha$ -Phenylhydrazonessigsäure. Sm. 80 bis 81° (C. r. 134, 1312 C. 1902 [2] 187).
- $C_{10}H_{11}O_2N_2Br$  5) 4-Acetylamido-1-Acetylbromamidobenzol. Zers. bei 60° (B. 34, 166).
- $C_{10}H_{11}O_2ClS$  1) Chlorid d.  $\alpha$ -Tetrahydronaphtalin- $\beta$ -Sulfonsäure (C. 1902 [2] 1119).
- $C_{10}H_{11}O_3NS$  4) O-Methylester-S-Benzylester d. Amidothioameisensäure-N-Carbonsäure. Sm. 103° (Soc. 79, 912).
- 5) Acetylphenylamid d. Aethensulfonsäure. Sm. 100° (B. 34, 3477).
- $C_{10}H_{11}O_3NHg$  1) Acetat d. 2-Acetylamidophenylquecksilberhydroxyd. Sm. 156 bis 158° (B. 35, 2040 C. 1902 [2] 114).
- 2) Acetat d. 4-Acetylamidophenylquecksilberhydroxyd. Sm. 221° C. 1901 [1] 454; B. 35, 2039 C. 1902 [2] 114).
- $C_{10}H_{11}O_4BrS$  2) Äthylester d. 4-Bromphenylsulfonessigsäure +  $H_2O$ . Sm. 52° (J. pr. [2] 66, 146 C. 1902 [2] 797).

- $C_{10}H_{11}O_2BrS_2$  2) Cyklo- $\alpha$ -o-Xylylendisulfon- $\alpha$ -Bromäthan. Sm. 250° u. Zers. (B. 35, 1395 C. 1902 [1] 1096).
- $C_{10}H_{11}O_5N_2Br$  1) Äthyläther d.  $\beta$ -Brom- $\beta$ -Nitro- $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]äthan. Sm. 95—96° (J. pr. [2] 66, 19 C. 1902 [2] 584).
- $C_{10}H_{11}N_2ClS$  1)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -Phenylthioharnstoff. Sm. 91—92° (Soc. 79, 557).
- $C_{10}H_{12}ONCl$  \*6) Phenylamid d.  $\alpha$ -Chlorisobuttersäure. Sm. 69—70° (B. 34, 4054).
- 16) Nitrosochlorid d.  $\alpha$ -[4-Methylphenyl]propen. Sm. 135° (B. 35, 2254 C. 1902 [2] 274).
- 17) Methyl- $\beta$ -Chloräthylamid d. Benzolcarbonsäure. Fl. (B. 34, 3549).
- 18) Phenylamid d.  $\beta$ -Chlorbuttersäure. Sm. 89—90° (B. 34, 4053).
- 19) Phenylamid d.  $\beta$ -Chlorisobuttersäure. Sm. 104—105° (B. 34, 4055).
- 20) Methylphenylamid d.  $\alpha$ -Chlorpropionsäure. Sm. 51—52° (D.R.P. 85212). — \*II, 176.
- 21) 2,4-Dimethylphenylamid d. Chloressigsäure. Sm. 143° (Am. 27, 12 C. 1902 [1] 477).
- $C_{10}H_{12}ONBr$  \*10) Methylphenylamid d.  $\alpha$ -Brompropionsäure. Sm. 46°; Sd. 164°<sub>20</sub> (B. 34, 2126).
- \*16) 3-Brom-2,4-Dimethylphenylamid d. Essigsäure. Sm. 151—152° (B. 34, 2255).
- \*17) 6-Brom-2,4-Dimethylphenylamid d. Essigsäure. Sm. 196—197° (B. 34, 2256).
- \*18) 3-Brom-2,6-Dimethylphenylamid d. Essigsäure. Sm. 136° (B. 32, 2259).
- 19) 5-Brom-2,4-Dimethylphenylamid d. Essigsäure. Sm. 168—169° (B. 34, 2253). — \*II, 312.
- 20) 4-Brom-2,6-Dimethylphenylamid d. Essigsäure. Sm. 193—194° (B. 33, 1974; 34, 2262). — \*II, 310.
- $C_{10}H_{12}ON_2S$  11) Methyläther d. Acetylamidophenylimidomerkaptomethan (Acetylphenylthiomethylpseudothiobarnstoff). Sm. 82—83°. HJ (Am. 26, 412; Am. 27, 277 C. 1902 [1] 1300).
- 12) Methyläther d. Acetylphenylamidimidomerkaptomethan (unacetylphenylpseudomethylthioharnstoff). Sm. 85—86°. HJ (Am. 27, 276 C. 1902 [1] 1300).
- 13) Allyläther d. 4-Oxyphenylthioharnstoff. Sm. 148° (B. 34, 1941).
- $C_{10}H_{12}ON_2S_2$  3) 4-Methylphenylamidoformylmethylester d. Amidodithioameisensäure (Am. 28, 150 C. 1902 [2] 794).
- $C_{10}H_{12}OBr_2S$  1) 5-Methyläther d. 3,6-Dibrom-5-Oxy-2-Merkaptomethyl-1,3-Dimethylbenzol. Sm. 94—95° (B. 34, 4278 C. 1902 [1] 309). — \*II, 691.
- $C_{10}H_{12}O_2NCl$  \*8) Anetholnitrosylchlorid. Sm. 117° (B. 35, 2263 C. 1902 [2] 276).
- 13) Äthylester d. 4-Chlor-2,6-Dimethylpyridin-3-Carbonsäure. Sd. 258° (263—264°). HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub> + 4H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>), Pikrat (Soc. 59, 176; B. 34, 2284; B. 35, 3156 C. 1902 [2] 1214).
- 14) 4-Methoxyphenylamid d.  $\alpha$ -Chlorpropionsäure. Sm. 110° (D.R.P. 85212). — \*II, 403.
- $C_{10}H_{12}O_2NBr$  18) 4-Methyläther d.  $\alpha$ -Oximido- $\alpha$ -[3-Brom-4-Oxyphenyl]propan. Sm. 108° (C. 1902 [1] 1163).
- $C_{10}H_{12}O_2NJ$  4) Jodmethylat d. 4-[ $\alpha$ -Diketobutyl]pyridin (M. 22, 618).
- $C_{10}H_{12}O_2N_2S$  \*3) 4-Methylphenylthiohydantoinsäure. Zers. bei 210—212° (Am. 28, 151 C. 1902 [2] 794).
- 11) 2-Methylphenylthiohydantoinsäure. Zers. bei 208—230° (Am. 28, 150 C. 1902 [2] 794).
- 12) Säure (aus Phenylimidoacitetrahydro-1,3-Thiazin). Sm. 125°. — \*II, 201.
- 13) Methylester d.  $\alpha$ -Benzylthioharnstoff- $\beta$ -Carbonsäure. Sm. 134° (Soc. 79, 908).
- 14) Methylester d.  $\alpha$ -[2-Methylphenyl]thioharnstoff- $\beta$ -Carbonsäure. Sm. 172° (Soc. 79, 909).
- 15) Methylester d.  $\alpha$ -[4-Methylphenyl]thioharnstoff- $\beta$ -Carbonsäure. Sm. 158° (Soc. 79, 909).
- 16) Phenylamid d.  $\alpha$ -Carbaminmerkaptopropionsäure. Sm. 117° (J. pr. [2] 66, 189 C. 1902 [2] 933).

- $C_{10}H_{12}O_4NCl$  1) Diäthyläther d. 6-Chlor-4-Nitro-1,3-Dioxybenzol. Sm. 120,5° (D.R.P. 135331 C. 1902 [2] 1351).
- $C_{10}H_{12}N_3ClS$  1)  $\alpha$ -Phenylamido- $\beta$ -[ $\beta$ -Chlorallyl]thioharnstoff. Sm. 107—108° (Soc. 79, 560).
- $C_{10}H_{13}ONS$  21) Phenylamid d.  $\alpha$ -Merkaptobuttersäure. Sm. 95° (J. pr. [2] 66, 191 C. 1902 [2] 933).
- 22) Phenylamid d. Merkaptocessigäthyläthersäure. Sm. 61° (J. pr. [2] 66, 186 C. 1902 [2] 933).
- $C_{10}H_{13}OClBr_2$  \*1)  $\alpha$ -Chlor- $\alpha$ -Dibromcampher (Soc. 81, 311 C. 1902 [1] 969).
- $C_{10}H_{13}OClHg$  1) 3-Oxy-4-Isopropyl-1-Methylphenylquecksilberchlorid. Sm. 139,5° (B. 35, 2864 C. 1902 [2] 1039).
- $C_{10}H_{13}O_2NS$  3) Amid d.  $\alpha$ -Tetrahydronaphtalin- $\beta$ -Sulfonsäure. Sm. 139° (C. 1902 [2] 1119).
- 4) Methylphenylamid d. Propen- $\alpha$ -Sulfonsäure. Sm. 58° (B. 34, 3478).
- $C_{10}H_{13}O_2NHg$  1) Acetat d. 4-Dimethylamidophenylquecksilberhydroxyd. Sm. 165° (C. 1901 [1] 454; B. 35, 2044 C. 1902 [2] 115).
- $C_{10}H_{13}O_2BrS_3$  1) Verbindung (aus Trithiodibutolaktone u. Bromessigsäure). Sm. 154,5 bis 155° (B. 34, 3396).
- $C_{10}H_{13}O_3NS$  5) Acetylphenylamid d. Aethansulfonsäure. Sm. 110° (B. 34, 3481).
- $C_{10}H_{13}O_3N_2Cl$  2) Nitroderivat d. isom. 1-Chlor-1-Nitrocamphananhydrid. Sm. 71—72° (Soc. 79, 1009).
- $C_{10}H_{13}O_3N_2Br$  1) Nitroderivat d. isom. 1-Brom-1-Nitrocamphananhydrid. Sm. 103° (Soc. 79, 1008).
- $C_{10}H_{13}O_3BrS$  8) 2-Brom-4-Isopropyl-1-Methylbenzol-3- oder 5-Sulfonsäure (C. 1901 [2] 1030).
- $C_{10}H_{13}O_4NS$  12) 4-Acetylamido-1,3-Dimethylbenzol-5-Sulfonsäure (C. 1901 [1] 385).
- $C_{10}H_{13}O_5NS$  7) 4-Acetylamidophenylester d. Aethylschwefelsäure. Sm. 136° (D.R.P. 75456). — \*II, 402.
- 8) C-4-Aethoxyphenylamid d. Sulfoessigsäure. Na (D.R.P. 79174). — \*II, 403.
- $C_{10}H_{14}ONCl$  3) 3-Chlor-5-Amido-2-Oxy-4-Isopropyl-1-Methylbenzol (A. 310, 108). — \*II, 460.
- 4) Anhydrid d. 1-Chlor-1-Nitrocamphan. Sm. 230° (Soc. 79, 1006).
- 5) Anhydrid d. isom. Chlornitrocamphan. Sm. 248° (Soc. 79, 1007).
- $C_{10}H_{14}ONBr$  6) 3-Brom-5-Amido-2-Oxy-4-Isopropyl-1-Methylbenzol (A. 310, 110). — \*II, 460.
- $C_{10}H_{14}ON_2S$  6) Propyläther d. 4-Oxyphenylthioharnstoff. Sm. 158° (B. 34, 1940).
- $C_{10}H_{14}ON_2Cl$  1) Aethyläther d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]hydrazidoäthan. HCl (B. 35, 755).
- $C_{10}H_{14}OClBr$  7)  $\beta$ -Chlor- $\alpha$ -Bromcampher. Sm. 101° (Soc. 81, 273 C. 1902 [1] 660).
- $C_{10}H_{14}O_2NCl$  7) Diäthyläther d. 6-Chlor-4-Amido-1,3-Dioxybenzol. Sm. 63 bis 64° (D.R.P. 135331 C. 1902 [2] 1351).
- $C_{10}H_{14}O_2NBr$  1) Verbindung (aus d. Verb.  $C_{10}H_{17}O_2N_2Br$ ). Sm. 240° u. Zers. (Soc. 79, 657).
- $C_{10}H_{14}O_2ClAs$  1) Trimethylphenylarsoniumchlorid-4-Carbonsäure. Zers. oberh. 400°. 2 +  $PtCl_4$  +  $AuCl_3$  (A. 320, 314 C. 1902 [1] 921).
- $C_{10}H_{14}O_2BrAs$  1) Trimethylphenylarsoniumbromid-4-Carbonsäure. Zers. bei 270° (A. 320, 315 C. 1902 [1] 921).
- $C_{10}H_{14}O_3NCl$  \*1)  $\alpha$ -Chlor- $\alpha'$ -Nitrocampher (Soc. 81, 314 C. 1902 [1] 969).
- $C_{10}H_{14}O_3NBr$  \*1)  $\alpha$ -Brom- $\alpha'$ -Nitrocampher (Soc. 81, 314 C. 1902 [1] 969).
- 6)  $\beta$ -Bromnitrocampher. Sm. 112° (C. 1902 [1] 119).
- $C_{10}H_{14}O_3Cl_2S$  2) Chlorid d.  $\alpha$ -Chlorcampher- $\beta$ -Sulfonsäure. Sm. 60° (C. 1901 [2] 418; Soc. 81, 1452 C. 1902 [2] 1465).
- $C_{10}H_{14}O_3Br_2S$  2) Bromid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. Sm. 61° (Soc. 81, 1451 C. 1902 [2] 1465).
- $C_{10}H_{15}O_2NBr_2$  1) 1,2-Dibrom-1-Nitrocamphan. Sm. 195° (Soc. 79, 648).
- $C_{10}H_{15}O_2NS$  31) Inn. Anhydrid d. Campher- $\beta$ -Sulfonsäureamid. Sm. 223° (220°) (Bl. [3] 19, 124; C. 1901 [2] 417; Soc. 81, 1448 C. 1902 [2] 1465).
- 32) Amid d. 2-Isopropyl-1-Methylbenzol- $\beta$ -Sulfonsäure. Sm. 90° (B. 34, 1954).
- 32) Amid d. isom. 2-Isopropyl-1-Methylbenzol- $\beta$ -Sulfonsäure. Sm. 105° (B. 34, 1954).

- $C_{10}H_{15}O_2NS$  33) Phenylamid d.  $\beta$ -Methylpropan- $\alpha$ -Sulfonsäure. Sm. 38—38,5° (*R. 21, 81 C. 1902* [1] 855).
- $C_{10}H_{15}O_2NS_2$  1) 1-Diäthylamidobenzol-4-Thiolsulfonsäure (*C. 1901* [1] 1127).
- $C_{10}H_{15}O_2N_2Cl$  1) Trimethyl-4-Benzylammoniumchlorid (D.R.P. 87997). — \*II, 287.  
2) Dimethyläthyl-3-Nitrophenylammoniumchlorid (D.R.P. 87997). — \*II, 154.
- $C_{10}H_{15}O_2N_2Br$  3) Trimethyl-5-Nitro-2-Methylphenylammoniumbromid (*J. pr.* [2] 65, 251 *C. 1902* [1] 1203).  
4) Trimethyl-5-Nitro-3-Methylphenylammoniumbromid + 2H<sub>2</sub>O (*J. pr.* [2] 65, 244 *C. 1902* [1] 1203).  
5) Trimethyl-2-Nitro-4-Methylphenylammoniumbromid. Sm. 182° (*B. 34, 1137*).  
6) Trimethyl-3-Nitro-4-Methylphenylammoniumbromid + 1/2 H<sub>2</sub>O (*J. pr.* [2] 65, 248 *C. 1902* [1] 1203).
- $C_{10}H_{15}O_2N_2Cl$  \*1) Chloräthylat d. Kaffein. Sm. 182—183°. 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (*C. 1901* [1] 401).
- $C_{10}H_{15}O_2N_2Br$  1) Bromäthylat d. Kaffein. Sm. 170—171° u. Zers. (*Bl.* [3] 25, 200).
- $C_{10}H_{15}O_2N_2J$  \*1) Jodäthylat d. Kaffein. Sm. 182—183° (*C. 1901* [1] 401).
- $C_{10}H_{15}O_2Cl_2As$  1) Diäthyläther d. Phenyldioxyarsendichlorid. Sm. 95° (*A. 320, 287 C. 1902* [1] 919).
- $C_{10}H_{15}O_3ClS$  \*5) Chlorid d. Campher- $\beta$ -Sulfonsäure (*Soc. 81, 1447 C. 1902* [2] 1465).
- $C_{10}H_{15}O_3BrS$  2) Bromid d. Campher- $\beta$ -Sulfonsäure. Sm. 93° (*C. 1901* [2] 417; *Soc. 81, 1447 C. 1902* [2] 1465).
- $C_{10}H_{15}O_4N_2Br$  \*1) Bromcarpinsäure. Sm. 209° (*B. 35, 205 C. 1902* [1] 433).
- $C_{10}H_{15}O_4ClS$  2)  $\alpha$ -Chlorcampher- $\beta$ -Sulfonsäure. Ca + 6H<sub>2</sub>O (*Soc. 81, 1452 C. 1902* [2] 1465).
- $C_{10}H_{15}O_4BrS$  2)  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. K + 4H<sub>2</sub>O, Ca + 6H<sub>2</sub>O (*C. 1901* [2] 417; *Soc. 81, 1451 C. 1902* [2] 1465).
- $C_{10}H_{15}O_5BrS$  1) Säure (aus Sulfocampholencarbonsäure). Sm. 155° u. Zers. (*C. 1902* [2] 210).
- $C_{10}H_{15}ONCl$  11)  $\beta$ -Chlorcampheroxim. Sm. 134° (*Soc. 81, 272 C. 1902* [1] 660, 809).
- $C_{10}H_{15}ONBr$  7)  $\beta$ -Bromcampheroxim. Sm. 156° (*C. 1902* [1] 196; *Soc. 81, 271 C. 1902* [1] 660, 809).
- $C_{10}H_{15}O_2NBr$  2) 2-Brom-1-Nitrocamphan. Sm. 178° (*Soc. 79, 647*).
- $C_{10}H_{15}O_2NJ$  2) 2-Jod-1-Nitrocamphan. Sm. 118° (*Soc. 79, 649*).
- $C_{10}H_{15}O_4N_2S$  5) 2-Merkapto-4-[ $\alpha\gamma\delta$ -Tetraoxybutyl]-1-Allylimidazol. Sm. 138° (*B. 34, 3845 C. 1902* [1] 71).
- $C_{10}H_{15}O_4N_2S_4$  1) Verbindung (aus d. Verbind. C<sub>6</sub>H<sub>13</sub>O<sub>4</sub>N<sub>2</sub>S<sub>2</sub>). Sm. 84° (*B. 34, 441*).
- $C_{10}H_{17}OClHg$  1) Quecksilbercineolchlorid. Sm. 162° (*B. 35, 3175 C. 1902* [2] 1203).
- $C_{10}H_{17}OJHg$  1) Quecksilbercineoljodid. Sm. 152—154° u. Zers. (*B. 35, 3175 C. 1902* [2] 1203).
- $C_{10}H_{17}O_2N_2Cl$  1) Hydroxylaminderivat d. 1-Chlor-1-Nitrocamphan. Sm. 187° (*Soc. 79, 1007*).
- $C_{10}H_{17}O_2N_2Br$  3) Verbindung (aus 1-Brom-1-Nitrocamphananhydrid). Sm. 197° (2HCl, PtCl<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat (*Soc. 79, 655*)).
- $C_{10}H_{17}O_3NS$  \*2) Amid. d. Campher- $\beta$ -Sulfonsäure. Sm. 132° (*C. 1901* [2] 417; *Soc. 81, 1448 C. 1902* [2] 1465).
- $C_{10}H_{18}ONCl$  4) isom. i-Terpineolnitrosochlorid. Sm. 102—103° (*C. 1901* [1] 1008).
- $C_{10}H_{18}O_2NCl$  3) Nitrosochlorid d.  $\beta$ -[4-Oxy-4-Methylhexahydrophenyl]propen. Sm. 102—103° (*B. 35, 2150 C. 1902* [2] 279).
- $C_{10}H_{18}O_3N_2S_2$  1) Verbindung (aus d. Porphyraxin). Sm. 231° u. Zers. (*B. 34, 1877*).
- $C_{10}H_{18}O_3NCl$  \*2) Chlormethylat d. l-Egonin + H<sub>2</sub>O. 2 + PtCl<sub>4</sub> + H<sub>2</sub>O, + AuCl<sub>3</sub> + H<sub>2</sub>O (*J. pr.* [2] 65, 93 *C. 1902* [1] 595).
- $C_{10}H_{18}O_3NJ$  \*2) Jodmethylat d. l-Egonin + H<sub>2</sub>O. Sm. 218° (*J. pr.* [2] 65, 92 *C. 1902* [1] 595).
- $C_{10}H_{18}O_4NJ$  2) Jodmethylat d. 1-Methyltetrahydropyrol-2,5-Dicarbonsäure-dimethylester. Sm. 120—120,5° u. Zers. (*B. 35, 2070 C. 1902* [2] 218).
- $C_{10}H_{19}O_2JHg$  1) lab. Quecksilber-trans-Terpinjodid. Sm. 38° (*B. 35, 3181 C. 1902* [2] 1203).  
2) stab. Quecksilber-trans-Terpinjodid. Sm. 144° u. Zers. + C<sub>2</sub>H<sub>6</sub>O (*B. 35, 3178 C. 1902* [2] 1203).
- $C_{10}H_{20}O_2NJ$  2) Jodmethylat d. 1-Piperidylessigsäureäthylester. Sm. 158—159° (*B. 35, 1076 C. 1902* [1] 938).



- $C_{10}H_{20}O_2N_2Cl_2$  1) Bistrimethyläthylennitrosochlorid. Sm. 72—73° (74—75°) (B. 12, 169; A. 245, 246; Soc. 63, 482; 65, 325; B. 35, 3730 C. 1902 [2] 1404). — I, 118; \*I, 549.
- $C_{10}H_{20}O_4N_2S_2$  2) Diäthylester d. Di[ $\beta$ -Amidoäthyl]disulfid- $\beta\beta'$ -Dicarbonsäure (Cystindithylester). 3HCl (C. 1902 [2] 1360).
- $C_{10}H_{22}O_2N_2J$  \*1) Jodäthylat d. Diäthylamidoessigsäureäthylester. Sm. 123—125° (B. 35, 600).
- $C_{10}H_{26}O_3N_2Cl_2$  1) Verbindung (aus Di[Chlormethoxymethyl]äther u. Trimethylamin). + PtCl<sub>4</sub> + H<sub>2</sub>O, + AuCl<sub>3</sub> + H<sub>2</sub>O (A. 316, 170).

## — 10 V —

- $C_{10}H_5O_6N_2ClS$  3) Chlorid d. 1,5-Dinitronaphtalin-3-Sulfonsäure. Sm. 118 bis 119° (C. 1901 [1] 286).
- $C_{10}H_8O_2NBr_3S$  1) Acetat d. 2,4,6-Tribrom-3-Oxy-1-Rhodanmethylbenzol. Sm. 115° (B. 34, 4285 C. 1902 [1] 310). — \*II, 682.
- $C_{10}H_8O_5NClS$  12) 6-Chlor-2-Nitronaphtalin-4-Sulfonsäure + 6H<sub>2</sub>O (A. 323, 127 C. 1902 [2] 800).
- $C_{10}H_7O_2NBr_3S$  2) Acetat d. 3,5-Dibrom-2-Oxy-1-Rhodanmethylbenzol. Sm. 148 bis 150° (B. 34, 4285 C. 1902 [1] 310). — \*II, 681.
- $C_{10}H_8O_2N_2Cl_2Br_2$  1) 4,6-Dibrom-1,3-Di[Acetylchloramido]benzol. Sm. 181° (B. 34, 164).
- $C_{10}H_8O_3NClS$  10) 6-Chlor-2-Amidonaphtalin-4-Sulfonsäure. (A. 323, 129 C. 1902 [2] 800).
- $C_{10}H_8O_4N_2ClBr$  1) 6-Chlor-2-Brom-4-Nitrophenylimid d. Essigsäure. Sm. 133 bis 133,5° (Soc. 81, 497 C. 1902 [1] 863).
- $C_{10}H_8ONBr_3S$  1) 3,6-Dibrom-5-Oxy-2-Rhodanmethyl-1,4-Dimethylbenzol. Sm. 112—113° (B. 34, 4276 C. 1902 [1] 309). — \*II, 691.
- $C_{10}H_{10}ONCl_2S$  1)  $\beta\beta\beta$ -Trichlor- $\alpha$ -Acetylphenylamido- $\alpha$ -Merkaptoäthan. Sm. 99° (B. 34, 657).
- $C_{10}H_{10}N_2ClBrS$  1) 5-Chlor-2-Phenylamido-5-Brommethyl-4,5-DihydrothiazolP HBr (Soc. 79, 561).
- $C_{10}H_{11}O_2N_2ClS$  \*1)  $\alpha$ -Chlorid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Thiocarbonsäure- $\beta$ -Carbon-säureäthylester. Sm. 115—116° (B. 34, 2326).
- $C_{10}H_{11}O_3N_2JS$  1)  $\alpha$ -Ureido- $\alpha$ -Merkaptopropion-4-Jodphenyläthersäure. Sm. 195—196° (H. 20, 591). — \*II, 473.
- $C_{10}H_{12}O_2NBrS$  1)  $\beta$ -Bromallylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 45 bis 46° (B. 34, 3543).
- $C_{10}H_{13}O_3NCl_2S$  1) Inn. Anhydrid d.  $\alpha\alpha'$ -Dichlorcampher- $\beta$ -Sulfonsäure. Sm. 172° (C. 1902 [1] 418; Soc. 81, 1457 C. 1902 [2] 1465).
- $C_{10}H_{13}O_3NBr_2S$  1) Inn. Anhydrid d.  $\alpha\alpha'$ -Dibromcampher- $\beta$ -Sulfonsäure. Sm. 195° (C. 1901 [2] 418; Soc. 81, 1458 C. 1902 [2] 1465).
- $C_{10}H_{14}O_2NClS$  4) Inn. Anhydrid d.  $\alpha$ -Chlorcampher- $\beta$ -Sulfonsäureamid. Sm. 167° (C. 1901 [2] 418; Soc. 81, 1455 C. 1902 [2] 1465).
- $C_{10}H_{14}O_3NBrS$  8) Inn. Anhydrid d.  $\alpha'$ -Bromcampher- $\beta$ -Sulfonsäureamid. Sm. 166° (C. 1901 [2] 418; Soc. 81, 1455 C. 1902 [2] 1465).
- 9) Inn. Anhydrid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäureamid. Sm. 186° (C. 1901 [2] 418; Soc. 81, 1453 C. 1902 [2] 1465).
- 10) Methyl- $\beta$ -Bromäthylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 76,5° (B. 34, 3547).
- $C_{10}H_{14}O_3ClBrS$  3) Chlorid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. Sm. 65° (C. 1901 [2] 418; Soc. 81, 1451 C. 1902 [2] 1465).
- $C_{10}H_{16}O_3NClS$  2) Amid d.  $\alpha$ -Chlorcampher- $\beta$ -Sulfonsäure. Sm. 141° (C. 1901 [2] 418; Soc. 81, 1452 C. 1902 [2] 1465).
- $C_{10}H_{16}O_3NBrS$  2) Amid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. Sm. 156° (C. 1901 [2] 418; Soc. 81, 1451 C. 1902 [2] 1465).

## — 10 VI —

- $C_{10}H_{18}O_3NClBrS$  1) Inn. Anhydrid d.  $\alpha\alpha'$ -Chlorbromcampher- $\beta$ -Sulfonsäureamid. Sm. 172—174° (u. 192—194°) (Soc. 81, 1459 C. 1902 [2] 1465).

C<sub>11</sub>-Gruppe.

- C<sub>11</sub>H<sub>10</sub> \*2) 2-Methylnaphtalin. Sm. 32°; Sd. 240—242°<sub>760</sub>. Pikrat (*Bl.* [3] 25, 494).
- C<sub>10</sub>H<sub>12</sub> 4) δ-Phenyl-β-Methyl-αγ-Butadiën. Sd. 124°<sub>32</sub> (*B.* 35, 2651 *C.* 1902 [2] 588).
- C<sub>11</sub>H<sub>14</sub> \*11) 2,4,6-Trimethylphenyläthen. Sd. 203—205° (*B.* 35, 2251 *C.* 1902 [2] 273).
- 14) β-Phenyl-β-Penten. Sd. 199° (*B.* 35, 2644 *C.* 1902 [2] 586; *B.* 35, 3509 *C.* 1902 [2] 1320).
- 15) δ-Phenyl-β-Methyl-α-Buten. Sd. 205° (*B.* 35, 2652 *C.* 1902 [2] 588).
- C<sub>11</sub>H<sub>16</sub> 32) sec. Amylbenzol (β-Phenylpentan). Sd. 191° (191—193°) (*B.* 35, 2644 *C.* 1902 [2] 586; *B.* 35, 3509 *C.* 1902 [2] 1320).
- C<sub>11</sub>H<sub>18</sub> \*4) Kohlenwasserstoff (aus Homolinalool). Sd. 183—185°<sub>741</sub> (*C.* 1901 [2] 624).
- 5) δδ-Dimethyl-αγη-Nonatriën. Sd. 195—197°<sub>750</sub> u. Zers. (*C.* 1901 [2] 624).
- 6) 6-Isopropyliden-3-Methyl-1-Methylenhexahydrobenzol. Sm. 177 bis 179°<sub>744</sub> (*C.* 1901 [2] 624).
- 7) Homolimonen. Sd. 191—192° (*A.* 323, 158 *C.* 1902 [2] 843).
- 8) Methylfenchene. Sd. 172—173°<sub>743</sub> (*B.* 34, 3256).
- 9) Kohlenwasserstoff (aus Carvenon). Sd. 194—197° (*C.* 1902 [1] 1294).
- 10) Kohlenwasserstoff (aus Dihydrocarvon). Sd. 191—192° (*C.* 1902 [1] 1294).
- 11) Kohlenwasserstoff (aus d. Säure C<sub>12</sub>H<sub>18</sub>O<sub>2</sub>). Sd. 194—197° (*A.* 323, 157 *C.* 1902 [2] 843).
- C<sub>11</sub>H<sub>20</sub> 6) β-Undekin. Sd. 199—201° (*B.* 35, 2145 *C.* 1902 [2] 260).
- 7) 1,3-Dimethyl-4-Isopropyl-2-Tetrahydrobenzol. Sd. 180—182°<sub>753</sub> (*B.* 34, 3256).
- 8) 2,6-Dimethyl-5-Isopropyl-1,2,3,4-Tetrahydrobenzol? (Homomenthen). Sd. 186—187° (*A.* 323, 153 *C.* 1902 [2] 843).
- 9) 6-Isopropyl-3-Methyl-1-Methylenhexahydrobenzol. Sd. 72—74°<sub>10</sub> (*C.* 1901 [2] 624).
- 10) Homocarvomenthen. Sd. 194—196° (*A.* 323, 155 *C.* 1902 [2] 843).
- 11) Kohlenwasserstoff (aus Menthon). Sd. 196—197° (*C.* 1902 [1] 1294).
- 12) Kohlenwasserstoff (aus Tetrahydrocarvon). Sd. 194—195° (*C.* 1902 [1] 1294).
- C<sub>11</sub>H<sub>22</sub> \*6) α-Undeken (*C.* 1902 [2] 1407).
- 8) β-Undeken. Sd. 78,5°<sub>14</sub> (192—193°) (*C.* 1902 [2] 1407; *B.* 35, 2145 *C.* 1902 [2] 260).
- 9) Undekanaphten. Sd. 195° (*Am.* 25, 263, 302).

## — 11 II —

- C<sub>11</sub>H<sub>4</sub>O<sub>4</sub> C 66,0 — H 2,0 — O 32,0 — M. G. 200.
- 1) Verbindung (aus Essigsäurem Kupfer) (*Soc.* 81, 1400 *C.* 1902 [2] 1408).
- C<sub>11</sub>H<sub>8</sub>O<sub>10</sub> \*1) Benzolpentacarbonsäure + 5H<sub>2</sub>O. K, K<sub>2</sub> + H<sub>2</sub>O (*Bl.* [3] 25, 685; *A.* 322, 387 *C.* 1902 [2] 737).
- C<sub>11</sub>H<sub>7</sub>N \*1) Nitril d. Naphtalin-1-Carbonsäure (*C.* 1902 [1] 4).
- \*2) Nitril d. Naphtalin-2-Carbonsäure (*C.* 1902 [1] 4).
- C<sub>11</sub>H<sub>8</sub>O<sub>2</sub> \*4) Naphtalin-1-Carbonsäure (*B.* 35, 384 *C.* 1902 [1] 589).
- \*6) Aldehyd d. 2-Oxynaphtalin-1-Carbonsäure. Sm. 77°; Sd. 192°<sub>17</sub>. Pikrat (*Bl.* [3] 25, 374).
- C<sub>11</sub>H<sub>8</sub>O<sub>3</sub> \*3) 3-Acetyl-1,2-Benzpyron (*B.* 35, 1153 *C.* 1902 [1] 1002).
- \*8) 3-Oxynaphtalin-2-Carbonsäure. Sm. 214° (*B.* 34, 4142 *C.* 1902 [1] 315).
- 20) 3-α-Oxyäthenyl-1,2-Benzpyron (Oxyvinylcumarin) (*B.* 35, 1154 *C.* 1902 [1] 1003).
- 21) Anhydrid d. β-Phenylpropan-αγ-Dicarbonsäure. Zers. bei 197 bis 199° (*B.* 35, 787 *C.* 1902 [1] 761).
- 22) Anhydrid d. 1-Phenyl-R-Trimethylen-1,2-Dicarbonsäure. Sm. 99° (*Soc.* 81, 1215 *C.* 1902 [2] 888).
- C<sub>11</sub>H<sub>8</sub>O<sub>4</sub> \*17) Verbindung (aus d. Aldehyd d. 2-Chlormethylfuran-5-Carbonsäure) (*Soc.* 79, 815).
- 18) 6-Methyl-1,2-Benzpyron-2-Carbonsäure. Sm. 258° (*Soc.* 79, 474).
- 19) 7-Methyl-1,4-Benzpyron-2-Carbonsäure. Sm. 233—234° u. Zers. (*Soc.* 79, 473).
- 20) 8-Methyl-1,4-Benzpyron-2-Carbonsäure. Sm. 255—256°. Ag (*Soc.* 79, 472).

- $C_{11}H_8O_4$  21) Acetat d. 7-Oxy-1,2-Benzpyron. Sm. 140° (B. 34, 383).  
 22) Acetat d. 6-Oxy-1,4-Benzpyron. Sm. 126—127° (B. 35, 2549 C. 1902 [2] 597).
- $C_{11}H_8O_5$  5) Purpurgallin (siehe auch  $C_{13}H_{14}O_9$  u.  $C_{20}H_{16}O_9$ ). K (C. 1902 [1] 1055).  
 6) 7-Oxy-1,2-Benzpyronmethyläther-4-Carbonsäure. Sm. 219° (B. 34, 382).  
 7) 7-Oxy-1,4-Benzpyronmethyläther-2-Carbonsäure. Sm. 261° (B. 35, 865 C. 1902 [1] 813).  
 8) 8-Oxy-1,4-Benzpyronmethyläther-2-Carbonsäure. Sm. 251 u. Zers. (Soc. 81, 422 C. 1902 [1] 757).  
 9) Methylester d. 7-Oxy-1,2-Benzpyron-4-Carbonsäure. Sm. 178° (B. 34, 382).
- $C_{11}H_8N_2$  \*7) Nitril d. 1-Naphtylamidoameisensäure. Sm. 135° (J. pr. [2] 65, 380 C. 1902 [1] 1330).  
 9) Nitril d. 2-Naphtylamidoameisensäure. Sm. 102° (J. pr. [2] 65, 381 C. 1902 [1] 1330).  
 10) Nitril d. 5-Amidonaphtalin-2-Carbonsäure. Sm. 142° (D.R.P. 92995). — \*II, 867.  
 C 62,6 — H 4,2 — 33,2 — M. G. 211.
- $C_{11}H_8N_5$  1) 6-Amido-9-Phenylpurin (9-Phenyladenin). Sm. 240—241° (B. 34, 115).
- $C_{11}H_{10}O$  9) 2-Methyl-4-Phenylfuran. Sm. 80—81° (B. 35, 789 C. 1902 [1] 761).
- $C_{11}H_{10}O_2$  20) Monomethyläther d. 2,3-Dioxynaphtalin. Sm. 109° (108°) (J. pr. [2] 65, 536 C. 1902 [2] 368; D.R.P. 133459 C. 1902 [2] 554; M. 23, 520 C. 1902 [2] 744).  
 21) 7-Oxy-4-Methylen-2-Methyl-1,4-Benzpyran +  $H_2O$ . HCl +  $H_2O$ , Pikrat (B. 34, 1198).  
 22) 6,8-Dimethyl-1,4-Benzpyron. Sm. 80—81° (2HCl,  $PtCl_4$ ) (Soc. 79, 1189; Soc. 81, 421 C. 1902 [1] 998).  
 23) Acetat d.  $\gamma$ -Oxy- $\alpha$ -Phenylpropin. Sd. 146°<sub>16</sub> (C. 1901 [2] 25; Bl. [3] 27, 365 C. 1902 [1] 1319).
- $C_{11}H_{10}O_3$  \*1) Methyläther d. 7-Oxy-2-Methyl-1,4-Benzpyron (Dehydroacetylpinonol). Sm. 113° (B. 34, 109).  
 \*15) Anhydrid d.  $\alpha$ -Phenylpropan- $\alpha\beta$ -Dicarbonsäure. Sd. 184°<sub>10</sub> (Soc. 81, 1216 C. 1902 [2] 889).  
 \*17) Anhydrid d.  $\beta$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 105°; Sd. 217 bis 219°<sub>15</sub> (A. 320, 85).  
 22) 5,7-Dioxy-4-Methylen-2-Methyl-1,4-Benzpyran +  $H_2O$ . HCl, Pikrat (B. 34, 1203).  
 23) 7,8-Dioxy-4-Methylen-2-Methyl-1,4-Benzpyran. Zers. oberh. 150° HCl +  $H_2O$ , Pikrat (B. 34, 1206).  
 24) 6-Oxy-2-Aethyl-1,4-Benzpyron. Sm. 165° (B. 34, 1694).  
 25) 7-Oxy-2-Aethyl-1,4-Benzpyron. Sm. 186° (B. 34, 1697).  
 26) 7-Oxy-2,3-Dimethyl-1,4-Benzpyron. Sm. 262° (B. 34, 2948).  
 27) Aethyläther d. 6-Oxy-1,4-Benzpyron. Sm. 89—90° (B. 35, 2548 C. 1902 [2] 597).  
 28) Aethyläther d. 7-Oxy-1,4-Benzpyron. Sm. 120—121° (B. 34, 2478).  
 29) Anhydrid d.  $\alpha$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 95°; Sd. 218 bis 230°<sub>13</sub> (B. 34, 4176 C. 1902 [1] 254).  
 30) Methylester d.  $\beta$ -Phenylakrylsäure-4-Carbonsäurealdehyd. Sm. 82—83° (B. 34, 2784).
- $C_{11}H_{10}O_4$  \*3) Dimethyläther d. 5,7-Dioxy-1,2-Benzpyron (Limettin) (Soc. 81, 508 C. 1902 [1] 118, 1333).  
 \*4) Dimethyläther d. 6,7-Dioxy-1,2-Benzpyron. Sm. 141—142° (B. 34, 426).  
 \*14) 1,2-Lakton d. 1-[ $\alpha$ -Oxyisopropyl]benzol-2,4-Dicarbonsäure (Dimethylphthalidcarbonsäure). Sm. 205—206° (G. 32 [1] 309 C. 1902 [1] 1404).  
 \*17)  $\beta$ -Phenylpropen- $\alpha\gamma$ -Dicarbonsäure. Sm. 154° (B. 35, 787 C. 1902 [1] 761).  
 35) Dimethyläther d. 5,7-Dioxy-1,4-Benzpyron +  $H_2O$ . Sm. 131—132° (wasserfrei) (B. 35, 863 C. 1902 [1] 812).  
 36) Citropten. Sm. 146—147° (C. 1901 [2] 810).  
 37)  $\gamma$ -Keto- $\alpha$ -[2-Oxyphenyl]- $\alpha$ -Buten- $\beta$ -Carbonsäure (Oxybenzylidenacetessigsäure). Sm. oberh. 170° (B. 35, 1154 C. 1902 [1] 1003).

- C<sub>11</sub>H<sub>10</sub>O<sub>4</sub>** 38) 1-Phenyl-R-Trimethylen-1,2-Dicarbonsäure. Pb, Ag<sub>2</sub> (*Soc.* 81, 1215 C. 1902 [2] 888).  
 39) d-Phenylparakonsäure +  $\frac{1}{4}$ H<sub>2</sub>O. Sm. 127—131°. Ca, Ba + 3H<sub>2</sub>O, Ag (*A.* 321, 137 C. 1902 [1] 1007).  
 40) l-Phenylparakonsäure +  $\frac{1}{4}$ H<sub>2</sub>O. Sm. 125—131°. Ca, Ba + 3H<sub>2</sub>O, Ag (*A.* 321, 131 C. 1902 [1] 1006).  
 41) Säure (aus Sabinolglykuronsäure) oder C<sub>14</sub>H<sub>14</sub>O<sub>3</sub>. Sm. 198° (*H.* 33, 593).  
 42) Methylester d.  $\beta$ -[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 68—69° (*B.* 34, 1469).  
 43) Methylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -Phenylpropan- $\gamma$ -Carbonsäure (M. d. Benzoylbrenztraubensäure). Sm. 62° (59°). Cu (*B.* 30, 955; *B.* 35, 544 C. 1902 [1] 627).
- C<sub>11</sub>H<sub>10</sub>O<sub>5</sub>** 15)  $\gamma$ -Oxy- $\alpha$ -Phenylpropen- $\beta\gamma$ -Dicarbonsäure (Benzaläpfelsäure). Sm. 173° u. Zers. (*A.* 319, 189 C. 1902 [1] 106).  
 16) Oxyfumar-4-Methylphenyläthersäure. Sm. 197° (*Soc.* 79, 474).  
 17) Säure (aus Mesitylglyoxylsäure). Sm. 220—222° (*R.* 19, 384).
- C<sub>11</sub>H<sub>10</sub>O<sub>6</sub>** \*10) Anhydrid d. 3,4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm. 150° (175°) *Soc.* 81, 242 C. 1902 [1] 817).  
 11) 2-Methoxyphenoxylfumarsäure (Guajakoxyfumarsäure). Sm. 138° u. Zers. (*Soc.* 81, 422 C. 1902 [1] 757).  
 12) Benzoyläpfelsäure (*Z. Kr.* 27, 610). — \*II, 723.  
 13) Laktone d.  $\alpha$ -Oxy- $\alpha$ -[4,5-Dimethoxyphenyl]essigsäure-2-Carbonsäure. Sm. 207° u. Zers. (*Soc.* 81, 1026 C. 1902 [2] 747).
- C<sub>11</sub>H<sub>10</sub>O<sub>7</sub>** 5) 2,3,4,5-Tetraoxybenzol-3,4-Methylenäther-2,5-Dimethyläther-1-Ketocarbonsäure (*C.* 1902 [1] 1057).  
 6)  $\alpha$ -Oxy- $\beta$ -[5-Methoxyphenoxyl]propionsäure-2-Carbonsäure? Sm. 216°. Ag<sub>2</sub> (*Soc.* 81, 1030 C. 1902 [2] 747).  
 7) 4,5-Dioxybenzoldimethyläther-1-Carbonsäure-2-Ketocarbonsäure + 2H<sub>2</sub>O. Sm. 150°. Ag (*Soc.* 81, 1022 C. 1902 [2] 746).  
 C 48,9 — H 3,7 — O 47,4 — M. G. 270.
- C<sub>11</sub>H<sub>10</sub>O<sub>8</sub>** 1)  $\alpha\gamma$ - $\epsilon\eta$ -Dilaktone d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\delta$ -Methyl- $\beta\epsilon$ -Heptadien- $\alpha\delta\epsilon$ -Tricarbonsäure + H<sub>2</sub>O (Propiobistetransäure). Sm. 196° u. Zers. (*A.* 315, 161).
- C<sub>11</sub>H<sub>10</sub>N<sub>2</sub>** \*4) Nitril d. 1,3,5-Trimethylbenzol-2,4-Dicarbonsäure. Sm. 139—140° (*M.* 22, 1080 C. 1902 [1] 464).  
 9) 5-Methyl-3-Phenyl-1,2-Diazin (Methylphenylpyridazin). Sm. 95°. HJ, H<sub>2</sub>CrO<sub>4</sub> (*B.* 34, 4232 C. 1902 [1] 212).  
 10) 3-[4-Methylphenyl]-1,2-Diazin. Sm. 106—107°; subl. bei 90°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 34, 3833 C. 1902 [1] 52).  
 11) 4-Methyl-2-Phenyl-1,3-Diazin. Sm. 22,5°; Sd. 279°<sub>702</sub> (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, Pikrat (*B.* 35, 1576 C. 1902 [1] 1236).  
 12) Phenazin d. 1,2-Diketo-R-Pentamethylen. Sm. 102—103° (*B.* 35, 3211 C. 1902 [2] 1250).
- C<sub>11</sub>H<sub>11</sub>N** \*9) 2-Aethylchinolin (*B.* 34, 4327 C. 1902 [1] 319).  
 \*17) 2,7-Dimethylchinolin. (2HCl, PtCl<sub>4</sub>) (*B.* 35, 1995).
- C<sub>11</sub>H<sub>11</sub>N<sub>3</sub>** \*18) 2,8-Dimethylchinolin. Pikrat (*B.* 33, 3467; 34, 2450).  
 8) 3-[ $\beta$ -Amido-4-Methylphenyl]-1,2-Diazin. Sm. 142—143° (2HCl, PtCl<sub>4</sub>), Pikrat (*B.* 34, 3835 C. 1902 [1] 52).
- C<sub>11</sub>H<sub>12</sub>O** \*14)  $\alpha$ -Ketophenoheptamethylen. Sd. 270°<sub>700</sub> (*Soc.* 79, 606).  
 15)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Penten ( $\alpha$ -Benzaläthylmethylketon). Sm. 38—39° (39—40°); Sd. 142°<sub>12</sub> (*B.* 35, 968 C. 1902 [1] 870).  
 16)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\beta$ -Methyl- $\alpha$ -Buten ( $\gamma$ -Benzaläthylmethylketon). Sm. 38°; Sd. 127—130°<sub>12</sub> (*B.* 35, 970 C. 1902 [1] 871).
- C<sub>11</sub>H<sub>12</sub>O<sub>2</sub>** \*2) Methyläther d.  $\gamma$ -Keto- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten (Anisalaceton). Sm. 72—74° (*B.* 35, 1191 C. 1902 [1] 1004).  
 \*3)  $\alpha\gamma$ -Diketo- $\alpha$ -Phenylpentan. Sd. 153—155°<sub>10</sub> (*Bl.* [3] 27, 70 C. 1902 [1] 567).  
 \*4)  $\alpha\delta$ -Diketo- $\alpha$ -Phenylpentan (*C. r.* 133, 47).  
 \*21) Isopropylphtalid (*C.* 1901 [2] 415).  
 \*24) Methylester d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sm. 39° (*Soc.* 79, 1312 C. 1902 [1] 195).  
 30) Methylenäther d.  $\alpha$ -[3,4-Dioxyphenyl]- $\beta$ -Methylpropen. Sd. 252 bis 254° (*C.* 1902 [2] 118).  
 31)  $\beta$ -[2,5-Dimethylphenyl]akrylsäure. Sm. 176,5° (*C.* 1901 [2] 772).

- $C_{11}H_{12}O_2$  32) 1,2,3,4-Tetrahydronaphtalin-6-Carbonsäure. Sm. 153° (*B.* 35, 2515 *C.* 1902 [2] 452).  
 33) Laktone d.  $\gamma$ -Oxy- $\gamma$ -Phenylvaleriansäure. Sd. 168—170°<sub>16</sub> (*C. r.* 135, 629 *C.* 1902 [2] 1359).
- $C_{11}H_{12}O_3$  \*23)  $\alpha$ -Keto- $\alpha$ -Phenylbutan- $\gamma$ -Carbonsäure ( $\beta$ -Benzoylisobuttersäure). Sm. 140,5°. Ag (*B.* 34, 4228 *C.* 1902 [1] 212).  
 \*29)  $\beta$ -[4-Methylbenzoyl]propionsäure. Sm. 127° (*B.* 34, 3828).  
 \*35) 1,2,4-Trimethylbenzol-5-Ketocarbonsäure. Sm. 61—62° (*R.* 20, 329).  
 \*50) Aethylester d. Benzoylessigsäure. (Cu, NH<sub>3</sub>), Fe (*B.* 35, 247; *A.* 323, 19 *C.* 1902 [2] 782).  
 62) Dimethyläther d. 5,6-Dioxy-2-Methylbenzfuran. Sd. 273°<sub>730</sub> (*B.* 34, 362).
- $C_{11}H_{12}O_4$  \*20) fum.  $\alpha$ -Phenylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 192—193°. Ba + 2H<sub>2</sub>O, Pb, Ag<sub>2</sub> (*Soc.* 81, 1216 *C.* 1902 [2] 888).  
 \*26)  $\beta$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 137—138°. (NH<sub>4</sub>)<sub>2</sub> (*B.* 35, 393; *A.* 320, 83).  
 58) 1-Isopropylbenzol-2,4-Dicarbonsäure. Sm. 236—236,5° (*G.* 32 [1] 310 *C.* 1902 [1] 1404).  
 59)  $\beta$ -Acetoxy- $\alpha$ -Phenylpropionsäure. Sm. 80° (*J. pr.* [2] 64, 287).  
 60)  $\beta$ -[4-Methoxybenzoyl]propionsäure. Sm. 140—141°. Ag (*B.* 34, 3257).  
 61) 4-Acetoxy-1-Aethylbenzol-2-Carbonsäure? Sm. 145° (*A.* 319, 344 *C.* 1902 [1] 351).  
 62)  $\alpha$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure + H<sub>2</sub>O ( $\alpha$ -Phenylglutarsäure). Sm. 82—83° (wasserfrei). Ca + 1(4)H<sub>2</sub>O, Ba + 2H<sub>2</sub>O, Zn + 7H<sub>2</sub>O, Ag<sub>2</sub> (*B.* 34, 4175 *C.* 1902 [1] 254).  
 63) Methyläthylester d. Benzol-1,2-Dicarbonsäure. Sd. 285—287° (*M.* 22, 579).
- $C_{11}H_{12}O_5$  \*13) Pseudomethylester d. Opiansäure (*M.* 23, 373 *C.* 1902 [2] 203).  
 35) 3,4-Methylenäther-2,5-Dimethyläther d. Methyl-2,3,4,5-Tetraoxyphenylketon. Sm. 92° (*C.* 1902 [1] 1057).  
 36)  $\beta$ -[2,4,6-Trioxypheyl]akryl-2,4-Dimethyläthersäure. Na, Ag (*Soc.* 81, 511 *C.* 1902 [1] 1333).  
 37)  $\beta$ -[2-Oxy-4-Methoxybenzoyl]propionsäure. Sm. 155—156°. Ba + H<sub>2</sub>O (*Soc.* 81, 231 *C.* 1902 [1] 354, 816).  
 38) d-Phenylitaminsäure. Ba + H<sub>2</sub>O (*A.* 321, 138 *C.* 1902 [1] 1007).  
 39) l-Phenylitaminsäure. Na, Ba + H<sub>2</sub>O (*A.* 321, 133 *C.* 1902 [1] 1006).  
 40) Dimethylester d. 3-Oxybenzoldimethyläther-1,2-Dicarbonsäure. Sm. 71° (*B.* 34, 3747 *C.* 1902 [1] 40).  
 41) 1-Methylester-2-Aethylester d. 2-Carboxybenzol-1-Carbonsäure. Sd. 285—290° (D.R.P. 60716). — \*II, 890.  
 42) 2-Methylester-1-Aethylester d. 2-Carboxybenzol-1-Carbonsäure. Sd. 282—283° (D.R.P. 60716). — \*II, 890.
- $C_{11}H_{12}O_6$  14) 4,5-Dioxybenzoldimethyläther-1-Carbonsäure-2-Methylcarbon-säure. Sm. 214° u. Zers. (*Soc.* 81, 1028 *C.* 1902 [2] 747).  
 15)  $\alpha\gamma$ - $\epsilon\eta$ -Dilaktone d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\delta\delta$ -Dimethyl- $\beta\epsilon$ -Heptadien- $\gamma\epsilon$ -Dicarbonsäure (Isopropylidenbistetrone). Sm. 200—201° u. Zers. (*A.* 315, 154).
- $C_{11}H_{12}O_7$  \*8) 3,4-Dioxybenzoldimethyläther-1-Carbonsäure-2-Oxyessigsäure. Sm. 214—215° (Zers. bei 225—230°). Ag<sub>2</sub> (*Soc.* 81, 241 *C.* 1902 [1] 816).  
 10) Piscidinsäure. Sm. 182—185°. Ca, Pb, Anilinsalz (*Am.* 25, 392).  
 11) Ketotrimethyldicyklopentantricarbonsäure. K<sub>3</sub> (*Soc.* 79, 786).
- $C_{11}H_{13}N$  26)  $\gamma$ -Aethylimido- $\alpha$ -Phenylpropan (Cinnamylidenäthylamin). Sd. 143 bis 145°<sub>50</sub> (*B.* 35, 424 *C.* 1902 [1] 657).  
 27) 2-Methyl-1-Aethylindol (D.R.P. 128660 *C.* 1902 [1] 611).  
 28) 1,2,5-Trimethylindol. Sm. 56—57° (D.R.P. 128660 *C.* 1902 [1] 610).  
 5) 2,5-Dimethyl-1-[2-Methylphenyl]-1,3,4-Triazol. Sm. 168°. (2HCl, PtCl<sub>4</sub>), 2 + PtCl<sub>4</sub>, Pikrat (*G.* 31 [2] 127).  
 6) 2,5-Dimethyl-1-[4-Methylphenyl]-1,3,4-Triazol. Sm. 228°. 2 + PtCl<sub>4</sub>, Pikrat (*G.* 31 [2] 129).  
 7) Iminopyrin. Sm. 116° (*B.* 34, 726).  
 8) Nitril d.  $\alpha$ -[2-Methylphenyl]hydrazonbuttersäure. Sm. 114—115° (*Bl.* [3] 25, 696; *Bl.* [3] 27, 199 *C.* 1902 [1] 916).



- $C_{11}H_{13}N$  9) Nitril d.  $\alpha$ -[4-Methylphenyl]hydrazonbuttersäure. Sm. 143—144° (Bl. [3] 25, 696; Bl. [3] 27, 199 C. 1902 [1] 916).
- $C_{11}H_{14}O$  \*13)  $\gamma$ -Keto- $\delta$ -Phenyl- $\beta$ -Methylbutan (Isopropylbenzylketon. Sd. 234—235° (C. 1901 [1] 724).
- \*20) Methyl-2, 4, 5-Trimethylphenylketon. +  $MgJC_2H_5$  +  $(C_2H_5)_2O$  (B. 35, 2645 C. 1902 [2] 585).
- \*21) Methyl-2, 4, 6-Trimethylphenylketon. 2 +  $Al_2Br_6$  (Am. 27, 251 C. 1902 [1] 1291).
- 28)  $\delta$ -Oxy- $\delta$ -Phenyl- $\alpha$ -Penten (Methylallylphenylcarbinol). Sd. 217—223°<sub>747</sub> (J. pr. [2] 64, 546; C. 1901 [1] 998). — \*II, 652.
- 29) Aethyläther d.  $\alpha$ -[4-Oxyphenyl]propen (Anäthol). Blättchen; Sd. 242° (B. 35, 2265 C. 1902 [2] 276).
- 30)  $\beta$ -Keto- $\alpha$ -Phenylpentan (Propylbenzylketon). Sd. 238—241° (243 bis 244°<sub>755</sub>) (Soc. 81, 1189; C. r. 133, 1218 C. 1902 [1] 299).
- 31)  $\gamma$ -Keto- $\alpha$ -Phenylpentan. Sd. 128°<sub>17</sub> (B. 35, 969 C. 1902 [1] 871).
- 32)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\beta$ -Methylbutan. Sd. 234° (B. 35, 970 C. 1902 [1] 871).
- 33) Propyl-4-Methylphenylketon. Sd. 248—250° (C. r. 133, 1218 C. 1902 [1] 299).
- $C_{11}H_{14}O_2$  \*2) Dimethyläther d. 3,4-Dioxy-1-Allylbenzol (Methyleugenol). Sd. 252 bis 254° (Soc. 81, 67 C. 1902 [1] 120).
- \*7) Aethyläther d. Aethyl-4-Oxyphenylketon. Sd. 153—154°<sub>13</sub> (B. 35, 2264 C. 1902 [2] 276).
- 64)  $\beta$ -[2,5-Dimethylphenyl]propionsäure. Sm. 111,5° (C. 1901 [2] 772).
- 65) sec. Butylester d. Benzolcarbonsäure. Sd. 234,5—235,5°<sub>757</sub> (Am. 26, 312).
- 66) Phenylester d. Isovaleriansäure. Sd. 224—226° (B. 34, 181).
- $C_{11}H_{14}O_3$  \*16)  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]essigsäure. Sm. 151—152° (R. 19, 381; 20, 328).
- 72) 5-Methyläther d. 5,6-Dioxy-1-Oxymethyl-3-Allylbenzol. Sm. 37—38° (B. 35, 3845 C. 1902 [2] 1454).
- 73)  $\delta$ -Dioxy- $\alpha$ -Keto- $\alpha$ -Phenylpentan. Sm. 90—91° (C. 1901 [2] 268).
- 74) 4-Aethyläther d. Aethyl-2,4-Dioxyphenylketon. Sm. 54° (B. 34, 2947).
- 75)  $\alpha$ -[4-Oxyphenyl]propionäthyläthersäure. Sm. 68° (C. 1901 [1] 1161; 1902 [1] 1056).
- 76) Aldehyd d.  $\alpha$ -[3,4-Dioxyphenyldimethyläther]propionsäure. Sm. 44° (C. 1902 [1] 1057).
- 77) Aethylester d.  $\alpha$ -Oxy- $\alpha$ -Phenylpropionsäure. Sd. 258—260°<sub>752</sub> (C. r. 135, 628 C. 1902 [2] 1359).
- 78) Aethylester d. 4-Oxy-1-Aethylbenzol-2-Carbonsäure? Sm. 96° (A. 319, 343 C. 1902 [1] 351).
- $C_{11}H_{14}O_4$  \*21) Aethylester d. 3,5-Dioxybenzoldimethyläther-1-Carbonsäure. Sd. 285° (B. 35, 2885 Ann. C. 1902 [2] 1054).
- \*29) Aethylester d. Oxyessig[3-Methoxyphenyl]äthersäure. Sd. 170°<sub>94</sub> (Soc. 79, 1409).
- 31)  $\alpha$ -[3,4-Dioxyphenyldimethyläther]propionsäure +  $H_2O$ . Sm. 60° (C. 1902 [1] 1057).
- 32) Aethylcarbonat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sd. 278—283° (D.R.P. 60716). — \*II, 580.
- $C_{11}H_{14}O_5$  11)  $\alpha\gamma$ -Lakton d. cis- $\gamma$ -Oxy- $\beta\beta$ -Dimethylhexan- $\alpha\gamma\delta$ -Tricarbonsäure- $\gamma\delta$ -Anhydrid. Sm. 168° (Soc. 79, 775).
- 12) Methylester d. 2,4,6-Trioxyd-1,3-Dimethylbenzol-2-Methyläther-5-Carbonsäure. Sm. 96—98° (M. 23, 102 C. 1902 [1] 1099).
- 13) Methylester d. 2,4,6-Trioxybenzoltrimethyläther-1-Carbonsäure. Sm. 67—70° (M. 23, 91 C. 1902 [1] 1098).
- $C_{11}H_{14}O_6$  \*2) Diäthylester d. 1,2-Diketo-R-Pentamethylen-3,5-Dicarbonsäure.  $Na_2$  +  $1\frac{1}{2}H_2O$ , Cu (B. 35, 3206 C. 1902 [2] 1249).
- \*5) Dimethylester d. 3,4-Diketo-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure. Sm. 115—116° (B. 34, 2472).
- $C_{11}H_{14}O_8$  \*1) Tetramethylester d. R-Trimethylen-1,1,2,2-Tetracarbonsäure. Sm. 73° (J. pr. [2] 66, 123 C. 1902 [2] 734).
- $C_{11}H_{14}N_2$  \*5) 2,5-Dimethyl-1-Aethylbenzimidazol. Sm. 86—87°. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ) (B. 34, 4208 C. 1902 [1] 263).

- $C_{11}H_{14}N_2$  \*6) 2,6-Dimethyl-1-Aethylbenzimidazol. Sm. 142—143°. (HCl, AuCl<sub>3</sub>), Pikrat (B. 34, 4207 C. 1902 [1] 263).
- $C_{11}H_{14}Br_2$  9)  $\beta\gamma$ -Dibrom- $\beta$ -Phenylpentan. Fl. (B. 35, 3509 C. 1902 [2] 1320).
- 10)  $\gamma\delta$ -Dibromisoamylbenzol. Sm. 65—66° (B. 35, 2652 C. 1902 [2] 588).
- $C_{11}H_{14}S_2$  2)  $\alpha\gamma$ -Propylenäther d. 1,4-Di[Merkaptomethyl]benzol. Sm. 55—56° (J. pr. [2] 64, 529 C. 1902 [1] 260).
- 3) Isopropylidenäther d. 1,3-Di[Merkaptomethyl]benzol (B. 34, 1775).
- $C_{11}H_{15}N$  \*4) Aethylallylamidobenzol. Sd. 227—229° (A. 318, 97).
- 27) d- $\alpha$ -Amidophenoheptamethylen. HCl, d-Tartrat (Soc. 81, 582 C. 1902 [1] 862, 1322).
- 28) l- $\alpha$ -Amidophenoheptamethylen. HCl, d-Tartrat + 3H<sub>2</sub>O, d-Bromcamphersulfonat, Pikrat (Soc. 81, 579 C. 1902 [1] 862, 1322).
- 29) d-l- $\alpha$ -Amidophenoheptamethylen. Fl. HCl, (2HCl, PtCl<sub>4</sub>), H<sub>2</sub>SO<sub>4</sub>, Pikrat, Oxalat, d-Tartrat (Soc. 79, 609; Soc. 81, 578 C. 1902 [1] 862, 1322).
- 30) 1-Methylimidomethyl-4-Isopropylbenzol. Sd. 122°<sub>14</sub> (B. 35, 413 C. 1902 [1] 662).
- 31) 2-[4-Methylphenyl]tetrahydropyrrol? Pikrat (B. 34, 3839 C. 1902 [1] 53).
- 32) 2-Aethyl-1,2,3,4-Tetrahydroisochinolin. Sd. 225—227° (2HCl, PtCl<sub>4</sub>), HJ, Oxalat, Pikrat (B. 34, 3988 C. 1902 [1] 210).
- $C_{11}H_{15}Cl$  5)  $\beta$ -Chlor- $\beta$ -Phenylpentan. Fl. (B. 35, 2644 C. 1902 [2] 586).
- $C_{11}H_{15}Br$  \*5) 6-Brom-1,2,3,4,5-Pentamethylbenzol. Sm. 160° (B. 35, 871 C. 1902 [1] 804).
- 6) 5-Brom-3-Pseudobutyl-1-Methylbenzol. Sd. 243—246°<sub>747</sub> (D.R.P. 86447). — \*II, 34.
- $C_{11}H_{15}J$  \*1) 6-Jod-3-Pseudobutyl-1-Methylbenzol. Sd. 132°<sub>13</sub> (J. pr. [2] 65, 575 C. 1902 [2] 352).
- 3) 4-Jod-1-Isoamylbenzol. Sd. 281° (B. 34, 3680).
- 4) 2-Jod-3-Pseudobutyl-1-Methylbenzol. Sd. 132—133°<sub>13</sub> (J. pr. [2] 65, 575 C. 1902 [2] 352).
- $C_{11}H_{16}O$  30)  $\beta$ -Oxy- $\beta$ -Phenylpentan. Sd. 216° (B. 35, 2643 C. 1902 [2] 586).
- 31)  $\delta$ -Oxy- $\delta$ -Phenyl- $\beta$ -Methylbutan. Sd. 132°<sub>8</sub> (C. 1901 [2] 623).
- 32) Aldehyd d. Säure  $C_{11}H_{16}O_3$ . Sd. 104—105°<sub>15</sub> (C. 1901 [2] 249).
- $C_{11}H_{16}O_2$  \*9) Diäthyläther d. Dioxymethylbenzol. Sd. 216—217° (Soc. 79, 1214).
- \*19) Oxymethylencampher. Fl. (A. 322, 18 C. 1902 [2] 782).
- \*22) Carbofenchonon. Sm. 96°; Sd. 273—274° (A. 315, 275).
- 27) 6-Oxy-4-Isopropyl-3-Oxymethyl-1-Methylbenzol. Sm. 97° (D.R.P. 85 588; B. 35, 3846 C. 1902 [2] 1454). — \*II, 693.
- 28) 4-Aethyläther d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. Sd. 144,5—145,5°<sub>10</sub> (B. 35, 2264 C. 1902 [2] 276).
- 29) Monoisoamyläther d. 1,2-Dioxybenzol. Sd. 245—248° (D.R.P. 92 651). — \*II, 547.
- 30) 3-Methyl-1-Aethyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sm. 141—143° (A. 323, 146 C. 1902 [2] 842).
- 31) Aethylester d. 3-Methyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. Sd. 125—126°<sub>16</sub> (A. 323, 139 C. 1902 [2] 842).
- 32) Allylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 124—128°<sub>18</sub> (C. 1901 [1] 1149; D.R.P. 133 631 C. 1902 [2] 553).
- $C_{11}H_{16}O_3$  \*6) Camphocarbonsäure. Sm. 127—128° (B. 35, 3510 C. 1902 [2] 1320).
- 17)  $\beta\delta\epsilon$ -Trioxy- $\beta$ -Phenylpentan. Fl. (J. pr. [2] 64, 551; C. 1901 [1] 998). — \*II, 679.
- $C_{11}H_{16}O_4$  \*12) Aethylester d. 6-Oxy-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol-1-Carbonsäure. Sm. 74—76° (B. 34, 1956).
- 18)  $\alpha$ -Oxycamphercarbonsäure. Sm. 207—208° u. Zers. (Soc. 79, 383).
- 20) Diäthylester d.  $\alpha\gamma$ -Pentadien- $\alpha\gamma$ -Dicarbonsäure. Fl. (B. 35, 1664 C. 1902 [1] 1320).
- $C_{11}H_{16}O_6$  \*12) Trimethylester d. dreibas. Hämatinsäure. Sd. 300—301° (A. 315, 204).
- 14)  $\alpha\gamma$ -Lakton d. cis- $\gamma$ -Oxy- $\beta\beta$ -Dimethylhexan- $\alpha\gamma\delta$ -Tricarbonsäure + H<sub>2</sub>O. Sm. 144° (153°) (Soc. 79, 774).
- 15)  $\alpha\gamma$ -Lakton d. trans- $\gamma$ -Oxy- $\beta\beta$ -Dimethylhexan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 213° (Soc. 79, 773).
- $C_{11}H_{16}N_2$  12) 3-[4-Methylphenyl]hexahydro-1,2-Diazin. Fl. Nitrat, Pikrat (B. 34, 3838 C. 1902 [1] 53).

- $C_{11}H_{16}N_4$  2) Di[3, 5-Dimethyl-4-Pyrazolyl]methan. Sm. 280° (*A.* 323, 110 *C.* 1902 [2] 785).
- $C_{11}H_{17}N$  \*1) 4-Amido-1-Isomylbenzol. Sd. 258—260°.  $H_2SO_4$  (*B.* 34, 3678).  
 \*6) Isoamylamidobenzol. Sd. 126—127°<sub>14</sub> (*A.* 318, 141).  
 \*17) 3-Diäthylamido-1-Methylbenzol. Sd. 228° (*B.* 35, 3540 *C.* 1902 [2] 1503).  
 \*19) Diäthylbenzylamin (*B.* 35, 1283 *C.* 1902 [1] 1094).  
 29)  $\gamma$ -Aethylamido- $\alpha$ -Phenylpropan (Hydrocinnamylenäthylamin). Sd. 124 bis 126°<sub>25</sub>. (2HCl, PtCl<sub>4</sub>) (*B.* 35, 424 *C.* 1902 [1] 657).  
 30) 4-Amido-1-tert. Amylbenzol (*B.* 34, 3679).  
 31) 4-Amido-3, 5-Diäthyl-1-Methylbenzol. Sd. 238° (D.R.P. 67844). — \*II, 320.  
 32) 1-Methylamidomethyl-4-Isopropylbenzol. Sd. 121°<sub>23</sub>. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, Pikrat (*B.* 35, 413 *C.* 1902 [1] 662).
- $C_{11}H_{17}As$  1) Diäthyl-4-Methylphenylarsin. Sd. 250° (*A.* 320, 305 *C.* 1902 [1] 920).  
 $C_{11}H_{18}O$  8) Dehydrocamphylcarbinol. Krystalle; Sd. 128—129°<sub>19</sub> (D.R.P. 127855 *C.* 1902 [1] 385).  
 9) Methyläther d. 1-Oxycamphen. Sd. 193—194°<sub>68</sub> (*Soc.* 81, 273 *C.* 1902 [1] 660).  
 10) Aldehyd d. 1-Methyl-4-Isopropyl-1, 2, 3, 4-Tetrahydrobenzol-6-Carbonsäure. Sd. 98°<sub>15</sub> (*C.* 1901 [2] 249).
- $C_{11}H_{18}O_2$  \*14) Formiat d. 1-Borneol. Sd. 215° (*C. r.* 134, 609 *C.* 1902 [1] 872).  
 \*15) Formiat d. Isoborneol. Sd. 106°<sub>16</sub> (*J. pr.* [2] 65, 224 *C.* 1902 [1] 1220).  
 \*17) Formiat d. Terpeneol. Sd. 160—163°<sub>680</sub> (D.R.P. 134553 *C.* 1902 [2] 975).  
 \*18) Aethyläther d. 6-Oxy-4-Keto-2, 2, 3-Trimethyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 265°<sub>50</sub> (*Soc.* 79, 144).  
 \*21) Aethylester d. 1-Methylhexahydrobenzol-1-Methylen-carbonsäure. Sd. 97° (*Bl.* [3] 27, 600 *C.* 1902 [2] 363).  
 26) Alkohol (aus Carbofenchonon). Sm. 89° (*A.* 315, 277).  
 27) Methyläther d. Oxycampher (aus Campherchinon). Sm. 149—150° (*B.* 35, 3813 *C.* 1902 [2] 1459).  
 28) Aethyläther d. 6-Oxy-4-Keto-2-Isopropyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 284°<sub>702</sub> (*Soc.* 81, 679 *C.* 1902 [2] 115).  
 29)  $\zeta$ -9-Diketo- $\beta$ - $\gamma$ -Dimethyl- $\beta$ -Nonen. Sd. 127—128°<sub>10</sub> (*Bl.* [3] 27, 66 *C.* 1902 [1] 566).  
 30) 3-Isobutyl-4-Keto-1, 2-Dimethyl-R-Pentamethylen. Sd. 108—109° (*Bl.* [3] 27, 69 *C.* 1902 [1] 567).  
 31) Säure (aus Pinenhydrochlorid). Krystalle; Sd. 156°<sub>12</sub> (*B.* 35, 3696 *C.* 1902 [2] 1458).  
 32) Aethylester d.  $\alpha$ -Oktin- $\alpha$ -Carbonsäure. Sd. 126—128°<sub>16</sub> (*C.* 1901 [1] 1149; D.R.P. 133631 *C.* 1902 [2] 553).  
 33) Isopropylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 126—127°<sub>22</sub> (*C.* 1901 [1] 1149; D.R.P. 133631 *C.* 1902 [2] 553).  
 34) Formiat d. Isofenchylalkohol. Sd. 98°<sub>17</sub> (*J. pr.* [2] 65, 228 *C.* 1902 [1] 1220).
- $C_{11}H_{18}O_3$  11) Methyl ester d. Dihydroketocampholensäure. Sd. 135—138°<sub>33</sub> (*Bl.* [3] 27, 410 *C.* 1902 [1] 1335).  
 12) Methyl ester d. Ketonsäure  $C_{10}H_{16}O_3$  (aus Campherchinon). Sm. 82 bis 83° (*B.* 35, 3831 *C.* 1902 [2] 1461).  
 13) Aethyl ester d.  $\zeta$ -Keto- $\beta$ -Methyl- $\beta$ -Hepten- $\epsilon$ -Carbonsäure. Sd. 120 bis 122°<sub>11-12</sub> (*B.* 34, 595).  
 14) Verbindung (aus Hydrochinon u. Amylenhydrat). Sm. 90—100° (*B.* 35, 1211 *C.* 1902 [1] 998).
- $C_{11}H_{18}O_4$  \*14) Ortho-Methyl ester d. d-Camphersäure (*M.* 23, 360 *C.* 1902 [2] 202).  
 \*15) Allo-Methyl ester d. d-Camphersäure (*M.* 23, 360 *C.* 1902 [2] 202).  
 27)  $\gamma$ -Lakton d.  $\epsilon$ - $\zeta$ -Dioxy- $\beta$ -Keto- $\gamma$ -Aethylhexan- $\zeta$ -Aethyläther- $\gamma$ -Carbonsäure. Sd. 210°<sub>25</sub> (*B.* 34, 1983).  
 28) Methyl ester d.  $\beta$ -Capronoxylpropen- $\alpha$ -Carbonsäure (*M.* d. O-Caproylacetessigsäure). Sd. 142°<sub>16</sub> (*C. r.* 133, 821 *C.* 1902 [1] 29; *Bl.* [3] 27, 1050 *C.* 1902 [2] 1411).  
 29) Methyl ester d.  $\beta$ -Diketnonan- $\gamma$ -Carbonsäure (*M.* d. C-Caproylacetessigsäure). Sd. 144°<sub>21</sub>. Cu (*C. r.* 133, 821 *C.* 1902 [1] 29; *Bl.* [3] 27, 1048 *C.* 1902 [2] 1410).

- $C_{11}H_{18}O_4$  30) Aethylester d.  $\delta\zeta$ -Diketo- $\beta$ -Methylheptan- $\epsilon$ -Carbonsäure. *Sd.* 118°<sub>12</sub> Cu (*Bl.* [3] 27, 1049 *C.* 1902 [2] 1411).
- 31) Monoäthylester d. cis-cis-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. *Sm.* 81,5° (*B.* 34, 2572).
- 32) Monoäthylester d. cis-trans-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. *Sm.* 54° Ag (*B.* 34, 2578).
- 33) Diäthylester d.  $\gamma$ -Methyl- $\alpha$ -Buten- $\alpha\gamma$ -Dicarbonsäure (D. d. Dimethylglutakonsäure). *Sd.* 195—197°<sub>200</sub> (*C.* 1901 [1] 221; *Soc.* 81, 254).
- 34) Diäthylester d.  $\gamma$ -Methyl- $\alpha$ -Buten- $\beta\gamma$ -Dicarbonsäure (D. d. Methylendimethylbernsteinsäure). *Sd.* 173—176°<sub>755—760</sub> (*Soc.* 81, 56 *C.* 1902 [1] 180, 409).
- 35) Diäthylester d. 1-Methyl-R-Tetramethylen-3,3-Dicarbonsäure. *Sd.* 155—165°<sub>15</sub> (*C.* 1902 [2] 106).
- 36) Aethylester d.  $\beta$ -Isovaleroxypropen- $\alpha$ -Carbonsäure. *Sd.* 122°<sub>14</sub> (*Bl.* [3] 27, 1051 *C.* 1902 [2] 1411).
- $C_{11}H_{18}O_6$  18) Trimethylester d.  $\beta$ -Methylbutan- $\beta\gamma\delta$ -Tricarbonsäure. *Sd.* 170 his 174°<sub>33</sub> (*Soc.* 81, 44 *C.* 1902 [1] 410).
- 19) Diäthylester d. 1- $\alpha$ -Propionoxyläthan- $\alpha\beta$ -Dicarbonsäure. *Sd.* 160°<sub>18</sub> (*Ph. Ch.* 36, 141).
- $C_{11}H_{18}O_7$  3) cis- $\gamma$ -Oxy- $\beta\beta$ -Dimethylhexan- $\alpha\gamma\delta$ -Tricarbonsäure. Ba<sub>3</sub>, Ag<sub>3</sub> (*Soc.* 79, 775).
- $C_{11}H_{15}N_2$  \*4) 3,4-Di[Aethylamido]-1-Methylbenzol. 2HCl (*B.* 35, 1265 *C.* 1902 [1] 1063).
- 10) 2,4-Di[Dimethylamido]-1-Methylbenzol. *Sd.* 254—256°<sub>757</sub>. (2HCl, PtCl<sub>4</sub>), Pikrat (*Soc.* 81, 653 *C.* 1902 [1] 1279).
- 11)  $\epsilon$ -Phenylamido- $\alpha$ -Amidopentan. 2HCl (*B.* 35, 1371 *C.* 1902 [1] 1091).
- 12) 4-Amido-2-Diäthylamido-1-Methylbenzol. *Sd.* oberh. 250° u. Zers. (265—266°<sub>730</sub>). 2HCl + H<sub>2</sub>O (*C.* 1902 [2] 378; D.R.P. 128754 *C.* 1902 [1] 610; *B.* 35, 335 *C.* 1902 [1] 594).
- $C_{11}H_{20}O$  6) 6-Oxymethyl-1-Methyl-4-Isopropyl-1,2,3,4-Tetrahydrobenzol (Dihydromenthylcarbinol). *Sd.* 99—101°<sub>18</sub> (D.R.P. 127855 *C.* 1902 [1] 385).
- 7) Camphylcarbinol. *Sm.* 62—64° (D.R.P. 127855 *C.* 1902 [1] 386).
- 8) Methylborneol. *Sm.* 154—156°; *Sd.* 193° (*B.* 34, 2884).
- 9) d-Methylfenchylalkohol. *Sm.* 51—52°; *Sd.* 208—209° (*B.* 34, 2883).
- 10) Aldehyd d. 1-Methyl-4-Isopropylhexahydrobenzol-2-Carbonsäure. *Fl.* (*C.* 1901 [2] 248).
- $C_{11}H_{20}O_2$  27) trans-Camphylglykol. *Sm.* 117—118° (*C.* 1901 [2] 796).
- 28)  $\zeta\theta$ -Diketo- $\beta\eta$ -Dimethylnonan (Methylacetylmethylheptanon). *Sd.* 131 bis 132°<sub>20</sub> (*Bl.* [3] 27, 65 *C.* 1902 [1] 566).
- 29) Lakton d.  $\gamma$ -Oxymethyl- $\beta\zeta$ -Dimethylheptan- $\delta$ -Carbonsäure. *Sd.* 144 bis 145°<sub>12</sub> (*A.* 318, 147).
- 30) Acetat d.  $\delta$ -Oxy- $\delta$ -Methyl- $\alpha$ -Okten. *Sd.* 196—200° (*J. pr.* [2] 64, 557; *C.* 1901 [1] 997).
- 31) Acetat d.  $\delta$ -Oxy- $\eta$ -Methyl- $\beta$ -Okten. *Sd.* 96—98°<sub>13</sub> (*C.* 1901 [2] 623).
- 32) Acetat d.  $\delta$ -Oxy- $\delta\epsilon$ -Dimethyl- $\alpha$ -Hepten. *Sd.* 195—200° (*J. pr.* [2] 64, 560; *C.* 1901 [1] 997).
- $C_{11}H_{20}O_3$  \*12) Aethylester d. 1-Oxy-3-Methylhexahydrophenyllessigsäure. *Sd.* 118 bis 119°<sub>11</sub> (*B.* 35, 2141 *C.* 1902 [2] 278; *Bl.* [3] 27, 599 *C.* 1902 [2] 362).
- \*13) Aethylester d.  $\alpha$ -Cinensäure. *Sd.* 89—90°<sub>10</sub> (*B.* 34, 2205).
- 14) Oxymethylmenthylsäure. *Sd.* 173—174° (*Bl.* [3] 27, 69 *C.* 1902 [1] 567).
- 15) Aethylester d. 1-Oxy-R-Heptamethylen-1-Methylcarbonsäure. *Sd.* 133—134°<sub>11</sub> (*B.* 35, 2143 *C.* 1902 [2] 279).
- 16) Acetat d. Oxyd C<sub>9</sub>H<sub>18</sub>O<sub>2</sub> (aus  $\gamma\epsilon\zeta$ -Trioxy- $\beta\beta\gamma$ -Trimethylhexan) (*J. pr.* [2] 65, 173).
- 17) Acetat d. Verbindung C<sub>9</sub>H<sub>18</sub>O<sub>2</sub> (*C.* 1901 [1] 668).
- $C_{11}H_{20}O_4$  30) Nonan- $\alpha\delta$ -Dicarbonsäure. *Sm.* 110° (*Soc.* 79, 1194).
- 31)  $\beta\zeta$ -Dimethylheptan- $\alpha\delta$ -Dicarbonsäure. *Sd.* 235—237°<sub>30</sub> (*A.* 317, 84).
- 32) Methylener d. Valeriansäure. *Sd.* 119°<sub>15</sub> (*C. r.* 134, 717 *C.* 1902 [1] 975).
- 33) Diäthylester d. Pentan- $\alpha\delta$ -Dicarbonsäure. *Sd.* 127—129°<sub>13</sub> (*A.* 317, 69).
- 34) Diacetat d.  $\alpha\gamma$ -Dioxy- $\beta\delta$ -Dimethylpentan. *Sd.* 226—227°<sub>248</sub> (*Al.* 22, 35).
- 35) Diisovalerianat d. Dioxymethan. *Sd.* 228—230°<sub>745</sub> (*Bl.* [3] 27, 871 *C.* 1902 [2] 934).
- $C_{11}H_{20}O_5$  13) Dimethyläther d. Acetonrhamnosid. *Sd.* 115—118°<sub>11</sub> (*C.* 1902 [2] 1248).

- $C_{11}H_{21}N$  3) 6-Amidomethyl-4-Isopropyl-1-Methyl-1,2,3,4-Tetrahydrobenzol. Sd. 230° (*C.* 1901 [1] 1026).  
 4) Nitril d. Dekan- $\alpha$ -Carbonsäure. Sd. 253—254° (Ehestädt, Dissert. Freiburg i. B. 1886). — \*I, 808.
- $C_{11}H_{21}Cl$  4) Chlorundekanaphten. Sd. 125—130°<sub>35</sub> (*Am.* 25, 293).  
 $C_{11}H_{22}O$  \*5)  $\beta$ -Ketoundekan. Sm. 13,5°; Sd. 223—224° (230,6°<sub>760</sub>). + NaHSO<sub>3</sub> (*C.* 1901 [1] 524, 1006; *Bl.* [3] 25, 269; *B.* 35, 3590 *C.* 1902 [2] 1357).  
 12) 2-Oxymethyl-1-Methyl-4-Isopropylhexahydrobenzol (Menthylcarbinol). Sd. 85—90°<sub>20</sub> (D.R.P. 127855 *C.* 1902 [1] 385).  
 13) 3-Oxy-4-Isopropyl-1,3-Dimethylhexahydrobenzol. Sd. 100°<sub>20</sub> (*B.* 34, 2882).  
 14) Alkohol (aus Magnesiumjodäthyl u. Malonsäurediäthylester). Sd. 177 bis 178° (*C.* 1901 [1] 999).  
 15) Methyläther d. l-Menthol (*C.* 1902 [2] 1238).  
 $C_{11}H_{22}O_2$  16)  $\beta$ -Keto- $\delta$ -Methyldekan. Sd. 115°<sub>25</sub> (*C.* r. 135, 296 *C.* 1902 [2] 693).  
 22) cis-3-Oxy-2-Oxymethyl-4-Isopropyl-1-Methylhexahydrobenzol (cis-Menthylglykol). Sm. 76—78°; Sd. 164—167°<sub>16</sub> (*C.* 1901 [2] 796).  
 23) trans-3-Oxy-2-Oxymethyl-4-Isopropyl-1-Methylhexahydrobenzol (trans-Menthylglykol). Sm. 103—104° (*C.* 1901 [2] 796).  
 24)  $\beta$ - $\eta$ -Dimethylloktan- $\delta$ -Carbonsäure. Sd. 144—146°<sub>13</sub> (*A.* 318, 156).  
 25)  $\beta$ - $\gamma$ -Trimethylheptan- $\delta$ -Carbonsäure. Sd. 145°<sub>11</sub> (*A.* 318, 154).  
 $C_{11}H_{22}O_3$  26) Diisobutylcarbinolester d. Essigsäure. Sd. 183°<sub>750</sub> (*C.* 1901 [2] 622).  
 6) Dimethyläther d.  $\alpha\alpha$ -Dioxy- $\eta$ -Keto- $\gamma$ -Methylloktan. Sd. 130—135°<sub>14</sub> (*B.* 34, 2989).  
 7)  $\alpha$ -Oxydekan- $\alpha$ -Carbonsäure. Sm. 70°; Ca (*Soc.* 79, 1193).  
 8)  $\gamma$ -Oxymethyl- $\beta$ - $\zeta$ -Dimethylheptan- $\delta$ -Carbonsäure. Fl. Ca (*A.* 318, 153).  
 9) Di[ $\beta$ -Methylbutylester] d. Kohlensäure. Sd. 205—207° (*C.* 1901 [1] 428).  
 10) Di[Methylpropylcarbinolester] d. Kohlensäure. Sd. 208—210° (*C.* 1901 [1] 1302).  
 11) Di[Methylisopropylcarbinolester] d. Kohlensäure. Sd. 205—207° (*C.* 1901 [1] 1302).  
 12) Di[Diäthylcarbinolester] d. Kohlensäure. Sd. 205—207° (*C.* 1901 [1] 1302).  
 $C_{11}H_{22}O_6$  C 52,8 — H 8,8 — O 38,4 — M. G. 250.
- $C_{11}H_{22}N_2$  1) Tetramethyläther d. Methylglykosid. Sd. 144—145°<sub>17</sub> (*C.* 1902 [2] 1248).  
 \*1) Di[1-Piperidyl]methan. Sd. 230—231° 2(HCl, AuCl<sub>3</sub>), HJ (*Ar.* 240, 231 *C.* 1902 [1] 1233).  
 6) 1,5-Di[Dimethylamido]-2,3,4,5-Tetrahydro-R-Hepten. Sd. 225 bis 235° (*A.* 317, 258).  
 $C_{11}H_{22}N_4$  C 62,8 — H 10,5 — N 26,7 — M. G. 210.  
 1)  $\gamma$ -Imidoamidomethylhydrazon- $\beta$ - $\zeta$ -Dimethyl- $\gamma$ -Hepten. Pikrat (*B.* 34, 2124).
- $C_{11}H_{22}Br_2$  2)  $\beta$ - $\gamma$ -Dibromundekan. Sd. 145—146° (*B.* 35, 2145 *C.* 1902 [2] 260).  
 $C_{11}H_{23}N$  8) 6-Amidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd. 226 bis 228° (*C.* 1901 [2] 152).  
 9) 2-Methyl-1-act. Amylhexahydropyridin. Sd. 200—202°<sub>750</sub>. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 34, 3020).  
 10) 1,2-Dipropylhexahydropyridin. Sd. 207—208°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, Pikrat (*B.* 34, 2422).
- $C_{11}H_{24}O$  6)  $\beta$ -Oxyundekan (Methylnonylcarbinol). Sd. 120°<sub>14</sub> (*B.* 35, 2144 *C.* 1902 [2] 260; *B.* 35, 3590 *C.* 1902 [2] 1357).  
 $C_{11}H_{24}O_2$  7)  $\epsilon$ -Oxy- $\beta$ - $\delta$ -Dimethylnonan. Sd. 105°<sub>9</sub> (*C.* 1901 [1] 612; 1901 [2] 623).  
 4)  $\beta$ - $\gamma$ -Dioxyundekan. Sm. 51—53° (*B.* 35, 2146 *C.* 1902 [2] 260).  
 5)  $\gamma$ - $\zeta$ -Dioxy- $\gamma$ -Methyl- $\zeta$ -Aethylloktan. Sm. 61°; Sd. 138—140°<sub>14</sub> (*C.* r. 135, 629 *C.* 1902 [2] 1359).
- $C_{11}H_{26}N$  \*1)  $\beta$ -Amidoundekan. Sd. 113—114°<sub>26</sub> (*B.* 35, 2146 *C.* 1902 [2] 260).  
 \*2)  $\alpha$ -Amidoundekan. HCl, (2HCl, PtCl<sub>4</sub>), Oxalat (*Bl.* [3] 27, 494 *C.* 1902 [2] 105).
- 11 III —
- $C_{11}H_5N_{12}S_{11}$  1) Verbindung (aus Rhodankalium) (*J. pr.* [2] 64, 464).  
 $C_{11}H_5ON_3$  C 64,4 — H 7,3 — O 7,8 — N 20,5 — M. G. 205.  
 1) 3-Keto-2-[Dicyanmethylen]-2,3-Dihydroindol (Isatomalonitril). Sm. 235° (*B.* 35, 1321 *C.* 1902 [1] 1055).



- $C_{11}H_8OCl_2$  1) Chlorid d. 1-Chlornaphtalin-2-Carbonsäure. Sm. 59,5—60,5° (64 bis 65°); Sd. 226°<sub>180</sub> (B. 34, 4161 C. 1902 [1] 317).  
2) Chlorid d. 3-Chlornaphtalin-2-Carbonsäure. Sm. 56,5°; Sd. 300°<sub>18</sub> (B. 34, 4159 C. 1902 [1] 317).
- $C_{11}H_8O_2N_2$  9) 2-Cyanchinolin-4-Carbonsäure. Sm. 226° (J. pr. [2] 66, 264 C. 1902 [2] 1128).
- $C_{11}H_8O_2Br_2$  1) Dibrompurpurogallin. Sm. 204—206° (C. 1902 [1] 1055).
- $C_{11}H_7O_2N_3$  2) 2,4-Diketo-1,2,3,4-Tetrahydro-1,3,10-Naphttriazin. Sm. noch nicht bei 280°. HCl, Na + 2H<sub>2</sub>O (B. 34, 1341).
- $C_{11}H_7O_2Cl$  \*6) 3-Chlornaphtalin-2-Carbonsäure. Sm. 216,5° (B. 34, 4160 C. 1902 [1] 317).  
\*8) Chlorid d. 1-Oxynaphtalin-2-Carbonsäure (M. 22, 790).  
9) Chlorid d. 3-Oxynaphtalin-2-Carbonsäure. Sm. 192° (M. 22, 791).
- $C_{11}H_7O_2N_3$  2) 2,4,6-Triketo-5-[2-Nitrobenzyliden]hexahydro-1,3-Diazin. Sm. 250—252° u. Zers. (B. 34, 1341).  
3) 6-Oxy-2-[4-Nitrophenyl]-1,3-Diazin-4-Carbonsäure. Sm. 261—262° u. Zers. BaH, Ba (B. 34, 1988).
- $C_{11}H_7O_2N_3$  2) Anhydro-4-Nitrophenylazoaceton dicarbonsäure. Sm. 251°. NH<sub>4</sub>, Na<sub>2</sub>, Ag, Phenylhydrazinsalz (B. 34, 82).
- $C_{11}H_7NS$  \*1) 1-Naphtylsenföhl. Sm. 58° (J. pr. [2] 65, 380 C. 1902 [1] 1330).
- $C_{11}H_7N_3Cl_2$  1) 2,8-Dichlor-6-Amido-9-Phenylpurin. Sm. 259° (B. 34, 114).  
2) 2-Dichloramidophenylpurin. Sm. 327° (B. 34, 114).
- $C_{11}H_8ON_2$  3) Nitril d. 2-Keto-4-Methyl-1,2-Dihydrochinolin-3-Carbonsäure. Sm. 320° (Ar. 240, 144 C. 1902 [1] 819).
- $C_{11}H_8O_2N_2$  7) 3-Phenyl-1,2-Diazin-3'-Carbonsäure. Sm. noch nicht bei 270°. Ag (B. 34, 3836 C. 1902 [1] 52).
- $C_{11}H_8O_2N_4$  4) 2,6-Diketo-9-Phenylpurin (9-Phenylxanthin). Sm. 337° u. Zers. (C. 1901 [1] 1220).
- $C_{11}H_8O_3N_2$  10) 2-Phenylhydrazon-3-Keto-1,4-Pyron. Sm. 175° u. Zers. (C. 1902 [1] 1109).  
11) 2,4,6-Triketo-5-Benzylidenhexahydro-1,3-Diazin (Benzalbarbitursäure). Sm. 256° (B. 34, 1340).  
12) 2-Oximidomethylchinolin-4-Carbonsäure. Sm. 251° (J. pr. [2] 66, 264 C. 1902 [2] 1128).
- $C_{11}H_8O_4N_2$  \*8) 4-Phenylpyrazol-3,5-Dicarbonsäure + 2H<sub>2</sub>O. Sm. 243—246° u. Zers. (B. 35, 34 C. 1902 [1] 424).  
22) 2,4,6-Triketo-5-[4-Oxybenzyliden]hexahydro-1,3-Diazin (4-Oxybenzalbarbitursäure). Sm. noch nicht bei 300° (B. 34, 1686).
- $C_{11}H_8O_4Cl_2$  7) Dimethyläther d. 3,6- oder 3,8-Dichlor-5,7-Dioxy-1,2-Benzpyron (Dichlorlimettin). Sm. 275° (Soc. 81, 510 C. 1902 [1] 119, 1333).
- $C_{11}H_8O_4Cl_4$  1) Diacetat d. 2,3,5,6-Tetrachlor-4-Oxy-1-Oxymethylbenzol. Sm. 120° (A. 320, 188 C. 1902 [1] 651).  
2) Diacetat d. 3,4,6-Trichlor-2,5-Dioxy-1-Chlormethylbenzol. Sm. 232° (B. 34, 4296 C. 1902 [1] 311). — \*II, 578.
- $C_{11}H_8O_4Br_2$  \*2) Dimethyläther d. 3,5-Dibrom-5,7-Dioxy-1,2-Benzpyron (Dibromlimettin). Sm. 297° u. Zers. (Soc. 81, 508 C. 1902 [1] 118, 1333).
- $C_{11}H_8O_4Br_4$  1) Diacetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-Oxymethylbenzol. Sm. 154—156° (A. 320, 214 C. 1902 [1] 634).  
2) Diacetat d. 3,4,6-Tribrom-2,5-Dioxy-1-Brommethylbenzol. Sm. 282—283° (B. 34, 4295 C. 1902 [1] 311). — \*II, 578.
- $C_{11}H_8O_5N_2$  5) Methyläther d. 4,5-Dinitro-1-Oxynaphtalin. Sm. 216° (B. 35, 2808 C. 1902 [2] 1119).
- $C_{11}H_8O_5N_4$  3) Imid d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Ketopropan- $\alpha$ - $\gamma$ -Dicarbonsäure (B. 34, 90).
- $C_{11}H_8O_5Cl_2$  1) 4,6-Dichlor-3,5-Dimethoxybenzofuran-1-Carbonsäure. Sm. 259° (Soc. 81, 511 C. 1902 [1] 1333).  
C 42,8 — H 2,6 — O 36,4 — N 18,2 — M. G. 308.
- $C_{11}H_8O_5N_4$  1) 5,2,2-Trinitro-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 222° (J. pr. [2] 65, 301 C. 1902 [1] 1233).  
2) 6,2,2-Trinitro-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 224° (J. pr. [2] 64, 97).  
3) 7,2,2-Trinitro-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm. 237° (J. pr. [2] 64, 99).

- $C_{11}H_9ON$  \*17) Echinopsin +  $H_2O$ . Sm.  $152^\circ$  (wasserfrei).  $HCl + 2H_2O, HNO_3 + 3H_2O$  (HJ, HgJ<sub>2</sub>). Oxalat, Pikrat (*B.* 19, 360).
- $C_{11}H_9O_2N$  \*2) *p*-Nitro-2-Methylnaphtalin (*Bl.* [3] 25, 494).
- \*20) 8-Amidonaphtalin-1-Carbonsäure. Sm.  $176^\circ$  (*G.* 32 [1] 55).
- \*32) 3-Methylchinolin-2-Carbonsäure. Sm.  $144^\circ$  (*B.* 34, 4332 *C.* 1902 [1] 320).
- \*37) Chinolinbetain. (2 +  $HBr + H_2O$ ) (*C.* 1901 [1] 744).
- \*50) Phenylamid d. Furan-2-Carbonsäure. Sm.  $123,5^\circ$  (*J. pr.* [2] 65, 35 *C.* 1902 [1] 460).
- 56) 2-Oxy-1-Oximidomethylnaphtalin. Sm.  $157^\circ$  (*Bl.* [3] 25, 374).
- 57)  $\alpha$ -Cyan- $\beta$ -Phenylpropen- $\gamma$ -Carbonsäure Sm.  $255-256^\circ$  (*C.* 1901 [1] 822).
- 58) 1-Phenylpyrrol-2-Carbonsäure. Sm.  $166^\circ$  u. Zers.  $NH_3, Ca + H_2O, Cu, Ag$  (*C.* 1902 [1] 1297; *B.* 35, 2530 *C.* 1902 [2] 452).
- 59) Methyl ester d. Chinolin-4-Carbonsäure. Sm.  $24^\circ$  (*M.* 22, 115).
- 60) Amid d. 2-Oxynaphtalin-1-Carbonsäure. Sm.  $186-188^\circ$  (*M.* 22, 791).
- $C_{11}H_9O_2N_3$  (61) Amid d. 1-Oxynaphtalin-2-Carbonsäure. Sm.  $190^\circ$  (*M.* 22, 790).
- 8) 3-*p*-Nitro-4-Methylphenyl-1,2-Diazin. Sm.  $133^\circ$ . (2HCl,  $PtCl_4$ , (HCl,  $AuCl_3$ ), Pikrat (*B.* 34, 3834 *C.* 1902 [1] 52).
- 9) 5-Amido-2-Phenyl-1,3-Diazin-4-Carbonsäure. Sm.  $196^\circ$ . HCl (*B.* 35, 3167 *C.* 1902 [2] 1216).
- $C_{11}H_9O_2N_5$  C 54,3 — H 3,7 — O 13,2 — N 28,8 — M. G. 243.
- 1) 6-Amido-2,8-Diketo-9-Phenylpurin. Zers. bei  $285^\circ$  (*B.* 34, 115).
- $C_{11}H_9O_2Cl$  1) Aethyläther d. 2-Chlor-3-Oxy-1-Ketoinden. Sm.  $69-70^\circ$  (*B.* 35, 2939 *C.* 1902 [2] 1049).
- $C_{11}H_9O_3N$  \*26) 4-Oxy-2-Methylchinolin-3-Carbonsäure. Sm.  $247-248^\circ$  (*B.* 34, 2717).
- \*27) 6-Oxychinolinmethyläther-4-Carbonsäure. Sm.  $280^\circ$  u. Zers. (*B.* 35, 2986 *C.* 1902 [2] 1132).
- \*36) Phenylimid d. Oxalpropionsäure. Zers. bei  $196^\circ$ . Ag (*B.* 35, 1628 *C.* 1902 [1] 1273).
- 44) Methyläther d. 4-Nitro-1-Oxynaphtalin. Sm.  $85-86^\circ$  (*C.* 1901 [1] 548).
- 45) 2-Keto-4-Methyl-1,2-Dihydrochinolin-3-Carbonsäure. Sm.  $254$  bis  $255^\circ$  (*Ar.* 240, 142 *C.* 1902 [1] 818).
- $C_{11}H_9O_3N_3$  8) 6-Oxy-4-Methyl-2-[4-Nitrophenyl-1,3-Diazin. Sm.  $296^\circ$ . Ag (*B.* 34, 1984).
- $C_{11}H_9O_3Cl$  1) 5- oder 7-Oxy-4,7- oder 4,5-Dimethyl-1,2-Benzpyron. Sm.  $295^\circ$  (*B.* 34, 359).
- $C_{11}H_9O_3Br_5$  1) 4-Acetat d. 2,3,5-Tribrom-4-Oxy-1- $[\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol- $\alpha$ -Methyläther. Sm.  $150-151^\circ$  (*A.* 322, 207 *C.* 1902 [2] 268).
- $C_{11}H_9O_4N$  14) 3-Oxy-1-Acetylundol-2-Carbonsäure. Sm.  $175^\circ$  u. Zers. Na (*B.* 34, 1856; D.R.P. 131400 *C.* 1902 [1] 1343).
- $C_{11}H_9O_4N_3$  4) 4,5-Dinitro-1-Methylamidonaphtalin. Sm.  $259^\circ$  u. Zers. (*B.* 35, 2806 *C.* 1902 [2] 1118).
- $C_{11}H_9O_4Cl$  5) Dimethyläther d. 6- oder 8-Chlor-5,7-Dioxy-1,2-Benzpyron (Chlorlimettin). Sm.  $242^\circ$  (*Soc.* 81, 510 *C.* 1902 [1] 119, 1333).
- $C_{11}H_9O_4Br_3$  3) Diacetat d. 2,3,5-Tribrom-4-Oxy-1-Oxymethylbenzol. Sm.  $107^\circ$  (*A.* 320, 209 *C.* 1902 [1] 653).
- $C_{11}H_9O_5N$  4) Methyläther d. 6-Nitro-7-Oxy-4-Methyl-1,2-Benzpyron. Sm.  $281$  bis  $282^\circ$  (*B.* 34, 671).
- 5) Methyläther d. 8-Nitro-7-Oxy-4-Methyl-1,2-Benzpyron. Sm.  $230^\circ$  (*B.* 34, 670).
- 6) 3-Oxyindol-1-Methylcarbonsäure-2-Carbonsäure. Sm.  $150^\circ$  u. Zers. (D.R.P. 128955 *C.* 1902 [1] 690).
- 7) Anhydrid d.  $\beta$ -[3-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm.  $170,5^\circ$  (*Am.* 28, 53 *C.* 1902 [2] 703).
- 8) Anhydrid d.  $\beta$ -[4-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm.  $122,5^\circ$  (*Am.* 28, 57 *C.* 1902 [2] 703).
- 9) Methylimid d. Cotarnsäure. Sm.  $205-206^\circ$  (*B.* 35, 1739 *C.* 1902 [2] 67).
- $C_{11}H_9O_5N_3$  \*2) 2,4-Dinitrophenyloxyhydrat d. Pyridin? (*B.* 34, 3022).
- 3) 5-*p*-Dinitro-2-Keto-1-Aethyl-1,2-Dihydrochinolin. Sm.  $197^\circ$  u. Zers. (*J. pr.* [2] 65, 303 *C.* 1902 [1] 1234).

- $C_{11}H_9O_5N_3$  4) 6,  $\beta$ -Dinitro-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 216° (*J. pr.* [2] 65, 302 *C. 1902* [1] 1234).
- $C_{11}H_9O_5Cl$  1) 4- oder -6-Chlor-3, 5-Dimethoxybenzofuran-1-Carbonsäure. Sm. 189° (*Soc.* 81, 511 *C. 1902* [1] 1333).
- $C_{11}H_9O_5Br$  2) 4- oder -6-Brom-3, 5-Dimethoxybenzofuran-1-Carbonsäure. Sm. 239°. K (*Soc.* 81, 509 *C. 1902* [1] 118, 1333).
- $C_{11}H_9NS_2$  \*1) 1-Naphtylamidodithioameisensäure.  $NH_4$  (*J. pr.* [2] 65, 380 *C. 1902* [1] 1330).
- \*2) 2-Naphtylamidodithioameisensäure.  $NH_4$  (*J. pr.* [2] 65, 381 *C. 1902* [1] 1330).
- $C_{11}H_9N_2Cl$  2) 6-Chlor-5-Methyl-3-Phenyl-1, 2-Diazin. Sm. 141—142° (*B.* 34, 4232 *C. 1902* [1] 212).
- 3) 6-Chlor-3-[4-Methylphenyl]-1, 2-Diazin. Sm. 153°; subl. bei 90—100° (*B.* 34, 3831 *C. 1902* [1] 51).
- $C_{11}H_9N_2J$  1) 6-Jod-3-[4-Methylphenyl]-1, 2-Diazin. Sm. 188° (*B.* 34, 3833 *C. 1902* [1] 52).
- $C_{11}H_9N_6Cl$   $\beta$ -Chlordiamido-9-Phenylpurin. Zers. bei 290° (*B.* 34, 115).
- $C_{11}H_{10}ON_2$  29) 4, 6-Diisocyan-2-Oxy-1, 3, 5-Trimethylbenzol. Zers. bei 160° (*M.* 22, 1082 *C. 1902* [1] 464).
- 30) 3-Oximido-2-Methyl-5-Phenylisopyrrol. Sm. noch nicht bei 240° (*G.* 31 [2] 12).
- 31) 3-Keto-4-Methyl-1-Phenyl-2, 3-Dihydro-1, 2-Diazin. Sm. 89—90° (*A.* 317, 14).
- 32) 3-[ $\beta$ -Oxy-4-Methylphenyl]-1, 2-Diazin. Sm. 210—211° (2HCl, PtCl<sub>4</sub>) (*B.* 34, 3835 *C. 1902* [1] 52).
- 33) 3-Keto-4-Methyl-6-Phenyl-2, 3-Dihydro-1, 2-Diazin (Methylphenylpyridazon). Sm. 189—190° (*B.* 34, 4231 *C. 1902* [1] 212).
- 34) 3-Keto-6-[4-Methylphenyl]-2, 3-Dihydro-1, 2-Diazin (p-Tolylpyridazon). Sm. 225° (*B.* 34, 3829 *C. 1902* [1] 51).
- 35) 3-Acetyl-2-Methyl-1, 4-Benzdiazin. Sm. 86,5° (*B.* 34, 3054).
- 36) Nitril d.  $\beta$ -Phenylakrylamidoessigsäure. Sm. 154° (*J. pr.* [2] 65, 191 *C. 1902* [1] 982).
- $C_{11}H_{10}ON_4$  \*3) s-Di[3-Pyridyl]harnstoff. Sm. 225° (*Ar.* 240, 356 *C. 1902* [2] 648).
- 5) s-Di[2-Pyridyl]harnstoff. Sm. 175° (*Ar.* 240, 350 *C. 1902* [2] 647).
- 6) s-Di[4-Pyridyl]harnstoff. Sm. 208° (*Ar.* 240, 364 *C. 1902* [2] 649).
- $C_{11}H_{10}O_2N_2$  \*21) 5-Methyl-1-Phenylpyrazol-3-Carbonsäure. Sm. 134° (*A.* 317, 18).
- 41) 3-Phenylhydrazon-1, 2-Diketo-R-Pentamethylen. Sm. 130° (*B.* 35, 3212 *C. 1902* [2] 1250).
- 42) Phenylhydrazon d. Isobrenzschleimsäure. Sm. 77° (*C. r.* 133, 168).
- 43)  $\beta\delta$ -Lakton d.  $\delta$ -Phenylhydrazon- $\beta$ -Oxy- $\alpha$ -Buten- $\delta$ -Carbonsäure. Sm. 177° (*A.* 317, 18).
- 44)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Phenylhydrazon- $\gamma$ -Oxy- $\beta$ -Buten- $\alpha$ -Carbonsäure. Sm. 128—129° u. Zers. (*A.* 317, 17).
- 45) Methylester d.  $\alpha$ -Cyan- $\beta$ -Phenylamidoakrylsäure. Sm. 175° (*Bl.* [3] 25, 45).
- 46) Methylester d. 1-Phenylpyrazol-4-Carbonsäure. Sm. 128—129° (*A.* 316, 41).
- 47) Methylester d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 181—182° (*B.* 35, 36 *C. 1902* [1] 424).
- $C_{11}H_{10}O_3N_2$  \*18) 2, 4, 6-Triketo-5-Benzylhexahydro-1, 3-Diazin (Benzylbarbitursäure) Sm. 206° (*B.* 34, 1340).
- 27) 6-Nitro-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 183°. Nitrat (*J. pr.* [2] 64, 87, 97; *J. pr.* [2] 65, 302 *C. 1902* [1] 1233).
- 28) 7-Nitro-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 168—169° (*J. pr.* [2] 64, 88).
- 29) 8-Nitro-2-Keto-1-Aethyl-1, 2-Dihydrochinolin. Sm. 92° (*J. pr.* [2] 64, 92).
- 30) Aethylcarbonat d.  $\alpha$ -Oximido- $\alpha$ -Phenylessigsäurenitril. Sm. 83° (*J. pr.* [2] 66, 364 *C. 1902* [2] 1501).
- $C_{11}H_{10}O_3N_4$  3) 4-Phenylhydrazon-3-Acetylamido-5-Keto-4, 5-Dihydroisoxazol. Sm. 182° u. Zers. (*G.* 31 [1] 585).
- 4) Phenylamid d. 5-Keto-4-Oximido-4, 5-Dihydropyrazol-3-Methyl-carbonsäure. Sm. 165° u. Zers. (*J. pr.* [2] 64, 348).

- $C_{11}H_{10}O_3Br_4$  5) 4-Acetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol- $\alpha$ -Methyläther. Sm. 90—91° (A. 322, 204 C. 1902 [2] 267).
- $C_{11}H_{10}O_4N_2$  18) Aethylester d. 1,3-Diketo-1,3-Dihydro-2,5-Benzdiazol-2-Methylcarbonsäure (Ae. d. Cinchomeronglycin). Sm. 101° (B. 35, 1360 C. 1902 [1] 1112).
- $C_{11}H_{10}O_4N_4$  \*3) Aethylester d. labil.  $\alpha$ -Cyan- $\alpha$ -[4-Nitrophenyl]hydrazonessigsäure. Sm. 177° (J. pr. [2] 51, 225; [2] 63, 24). — IV, 1456.
- \*3) Aethylester d. stabil.  $\alpha$ -Cyan- $\alpha$ -[4-Nitrophenyl]hydrazonessigsäure. Sm. 191—192° (J. pr. [2] 51, 225; [2] 63, 24). — IV, 1456.
- $C_{11}H_{10}O_4Br_2$  4) Citroptendibromid. Sm. 250—260° (C. 1901 [2] 810).
- $C_{11}H_{10}O_4S$  4) 2-Oxy-1-Naphtylmethan- $\alpha$ -Sulfonsäure. Ba (D.R.P. 87335). — \*II, 536.
- 5) 4-Oxy-1-Naphtylmethan- $\alpha$ -Sulfonsäure (D.R.P. 87335). — \*II, 536.
- $C_{11}H_{10}O_5N_2$  9) 7-Nitro-2-Keto-1, 2, 3, 4-Tetrahydrochinolin-4-Methylcarbonsäure. Sm. 185,5° (B. 35, 2077 C. 1902 [2] 206).
- $C_{11}H_{10}O_5N_4$  C 47,5 — H 3,6 — O 28,8 — N 20,1 — M.G. 278.
- 1) 2,4,6-Triketo-5-[2-Nitrobenzyliden]hexahydro-1,3-Diazin u. Ammoniak. Sm. 242° u. Zers. (B. 34, 1341).
- $C_{11}H_{10}O_5S$  1) 2,7-Dioxynaphtylmethan- $\alpha$ -Sulfonsäure. Na (D.R.P. 87335). — \*II, 600.
- $C_{11}H_{10}O_6N_2$  7) Aethylester d.  $\beta$ -[2,4-Dinitrophenyl]akrylsäure. Sm. 94° (M. 23, 536 C. 1902 [2] 743).
- $C_{11}H_{10}O_6Br_2$  1)  $\alpha$   $\gamma$ -en-Dilakton d.  $\gamma$  $\epsilon$ -Dibrom- $\alpha$  $\eta$ -Dioxy- $\beta$  $\zeta$ -Diketo- $\delta$  $\delta$ -Dimethylheptan- $\gamma$  $\epsilon$ -Dicarbonsäure. Sm. 113° u. Zers. (A. 315, 158).
- $C_{11}H_{10}O_6N_2$  C 44,3 — H 3,4 — O 42,9 — N 9,4 — M.G. 298.
- 1) Oxyessig- $\beta$ -Dinitro-2-Oxy-4-Allylphenyläthersäure. Sm. 154° u. Zers. (M. 22, 142).
- 2)  $\beta$ -[2,4-Dinitrophenyl]propan- $\alpha$  $\gamma$ -Dicarbonsäure. Sm. 177° (B. 35, 2075 C. 1902 [2] 205).
- 3) Diacetat d. 4,6-Dinitro-2,5-Dioxy-1-Methylbenzol. Sm. 154—157° (Z. Kr. 30, 75). — \*II, 578.
- $C_{11}H_{10}N_2S$  \*1) 1-Naphtylthioharnstoff. Sm. 198° (J. pr. [2] 65, 380 C. 1902 [1] 1330).
- \*2) 2-Naphtylthioharnstoff. Sm. 186° (J. pr. [2] 65, 381 C. 1902 [1] 1330).
- $C_{11}H_{10}N_4S$  \*1) s-Di[2-Pyridyl]thioharnstoff. Sm. 163° (Ar. 240, 351 C. 1902 [2] 647).
- $C_{11}H_{10}N_4S_3$  1) 2-Di[2-Thiazolylamido]methylthiophen. Sm. 117° (B. 34, 846).
- $C_{11}H_{11}ON$  49) Verbindung (aus Cytisin). Sm. 182—187° (B. 34, 617).
- $C_{11}H_{11}ON_3$  \*4) 3-Acetyl-5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 88—89°. + NaHSO<sub>3</sub> (J. pr. [2] 64, 236).
- 13) 5-[ $\beta$ -Acetylamidophenyl]pyrazol. Sm. 207° (B. 35, 40 C. 1902 [1] 425).
- 14) 5-Oxy-1-Methyl-3-[ $\beta$ -Phenyläthenyl]1,2,4-Triazol. Sm. 204—205°. Ag (Soc. 79, 666).
- 15) 6-Oxy-4-Methyl-2-[4-Amidophenyl]-1,3-Diazin. Sm. 233°. (2 HCl, PtCl<sub>4</sub>). Ag (B. 34, 1984).
- 16) 2-Methyl-3-[ $\alpha$ -Oximidoäthyl]-1,4-Benzdiazin. Sm. 194,5° (B. 35, 3312 C. 1902 [2] 1109).
- 17) Amid d. 5-Methyl-3-Phenylpyrazol-1-Carbonsäure. Sm. 154 bis 156° (B. 34, 3983 C. 1902 [1] 192).
- $C_{11}H_{11}O_2N$  \*41) Imid d.  $\beta$ -Phenylpropan- $\alpha$  $\gamma$ -Dicarbonsäure. Sm. 173—174° (A. 320, 86).
- 58) 3-Oxy-1-Propionylindol. Sm. 87° (D.R.P. 131400 C. 1902 [1] 1344).
- 59) isom. 3-Oxy-1-Propionylindol? Sm. 128° (D.R.P. 131400 C. 1902 [1] 1344).
- 60) 6-Methyläther d. 6,7-Dioxy-2-Methylchinolin. HCl, (2 HCl, PtCl<sub>4</sub>) (B. 35, 1501 C. 1902 [1] 1218).
- 61) Lakton d.  $\delta$ -Oxy- $\epsilon$ -[4-Pyridyl]- $\beta$ -Penten-3-Carbonsäure. (2 HCl, PtCl<sub>4</sub>). Pikrat (B. 34, 4341 C. 1902 [1] 321).
- 62) Verbindung (aus Hydrochinon u. Pyridin). Sm. 81—83° (B. 35, 1208 C. 1902 [1] 998).
- $C_{11}H_{11}O_2N_3$  \*17) Aethylester d. Phenylhydrazoncyanessigsäure. Sm. 85° (Bl. [3] 27, 201 C. 1902 [1] 916).
- \*18) Aethylester d. isom. Phenylhydrazoncyanessigsäure. Sm. 125° (Bl. [3] 27, 202 C. 1902 [1] 916).
- \*25) Imid d. 2,3-Dicyan-1-Methyl-1-Propyl-R-Trimethylen-2,3-Dicarbonsäure. Sm. 183—184° (C. 1901 [1] 579).

- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>N<sub>3</sub>** 27) **Methyläther d. 2-Methylnitrosamido-8-Oxychinolin.** Sm. 180° (*B.* 35, 3681 *C.* 1902 [2] 1475).
- 28) **Methylester d. 5-Methyl-1-Phenyl-1, 2, 3-Triazol-4-Carbonsäure.** Sm. 73—74° (*B.* 35, 1033 *C.* 1902 [1] 878).
- 29) **Aethylester d. 1-Phenyl-1, 2, 3-Triazol-5-Carbonsäure.** Sm. 54—55° (*B.* 35, 1035 *C.* 1902 [1] 879).
- 30) **Imid d. 2, 3-Dicyan-1, 1-Diäthyl-R-Trimethylen-2, 3-Dicarbonsäure.** Sm. 202°. Ag (*C.* 1901 [1] 582).
- 31) **Methylimid d. 2, 3-Dicyan-1-Methyl-1-Aethyl-R-Trimethylen-2, 3-Dicarbonsäure.** Sm. 161—162° (*C.* 1901 [1] 579).
- 32) **Aethylimid d. 2, 3-Dicyan-1, 1-Dimethyl-R-Trimethylen-2, 3-Dicarbonsäure.** Sm. 211° (*C.* 1901 [1] 578).
- 33) **Acetat d. 5-Oxy-1-Methyl-3-Phenyl-1, 2, 4-Triazol.** Sm. 72,5—73° (*Soc.* 79, 663).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>N** 50) **Methyläther d. 6-Amido-7-Oxy-4-Methyl-1, 2-Benzpyron.** Sm. 221 bis 222° (*B.* 34, 671).
- 51) **Methyläther d. 8-Amido-7-Oxy-4-Methyl-1, 2-Benzpyron.** Sm. 161° (*B.* 34, 671).
- 52) **2, 4-Diketo-5-Aethyl-3-Phenyltetrahydrooxazol.** Sm. 88° (*Bl.* [3] 27, 607 *C.* 1902 [2] 342).
- 53) **β-Phenylakrylamidoessigsäure.** Sm. 193° (*J. pr.* [2] 65, 192 *C.* 1902 [1] 982).
- 54) **2-Keto-1, 2, 3, 4-Tetrahydrochinolin-4-Methylcarbonsäure.** Sm. 183°. Cu, Ag (*B.* 35, 2076 *C.* 1902 [2] 206).
- 55) **Methylester d. Fumarphenylaminsäure.** Sm. 132° (*R.* 17, 200 Ann.). — \*II, 216.
- 56) **Methylester d. 3-Oxy-1-Methylindol-2-Carbonsäure.** Sm. 88° (144 bis 146°) (*B.* 35, 1700 *C.* 1902 [1] 1364).
- 57) **Aethylester d. Benzfuran-1-Amidoameisensäure (Cumarylurethan).** Sm. 141° (*B.* 34, 774).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>N<sub>3</sub>** 11) **γ-Semicarbazon-α-β-Diketo-α-Phenylbutan.** Sm. 190° (*B.* 35, 3317 *C.* 1902 [2] 1110).
- 12) **Acetat d. 5-Keto-3-Oxy-4-Methyl-1-Phenyl-4, 5-Dihydro-1, 2, 4-Triazol.** Sm. 129° (*B.* 34, 2333).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>Cl** 3) **1, 1-Dimethyläther d. 2-Chlor-1, 1, 3-Trioxinden.** Sm. 85° (*B.* 35, 2939 *C.* 1902 [2] 1049).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>Br** 3) **1, 1-Dimethyläther d. 2-Brom-1, 1, 3-Trioxinden.** Sm. 79° (*B.* 35, 2938 *C.* 1902 [2] 1049).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>Br<sub>3</sub>** \*2) **5-Acetat d. 3, 6-Dibrom-2, 5-Dioxy-1, 4-Dimethylbenzol-2-Brom-methyläther.** Sm. 103° (*B.* 35, 435 *C.* 1902 [1] 641).
- C<sub>11</sub>H<sub>11</sub>O<sub>4</sub>N<sub>3</sub>** 3) **γ-[2-Nitrophenyl]azo-βδ-Diketopentan.** Sm. 180° (*B.* 35, 2190 *C.* 1902 [2] 357).
- 4) **γ-[3-Nitrophenyl]azo-βδ-Diketopentan.** Sm. 140° (*B.* 35, 2191 *C.* 1902 [2] 357).
- 5) **γ-[4-Nitrophenyl]azo-βδ-Diketopentan.** Sm. 221—222° (*B.* 35, 2190 *C.* 1902 [2] 357).
- C<sub>11</sub>H<sub>11</sub>O<sub>4</sub>Br<sub>3</sub>** 1) **α-Brom-β-Aethoxyl-β-[3, 5-Dibrom-4-Oxyphenyl]propionsäure.** Sm. 174° (*A.* 322, 227 *C.* 1902 [2] 277).
- 2) **Methylester d. α-Brom-β-Methoxyl-β-[3, 5-Dibrom-4-Oxyphenyl]propionsäure.** Sm. 142° (*A.* 322, 227 *C.* 1902 [2] 277).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>N** \*11) **Aethylester d. 4-Nitrobenzoylessigsäure.** Sm. 74—75° (*B.* 35, 931 *C.* 1902 [1] 808).
- \*16) **Benzol-1-Carbonsäure-2-Acetylamidoessigsäure.** Sm. 214° u. Zers. (*C.* 1901 [2] 380; *B.* 35, 1685 *C.* 1902 [1] 1362).
- 22) **Aethylester d. 3-Nitrobenzoylessigsäure.** Sm. 78—79° (*B.* 35, 933 *C.* 1902 [1] 808).
- C<sub>11</sub>H<sub>11</sub>O<sub>3</sub>N<sub>3</sub>** 4) **Acetat d. 2-Nitro-4-Acetylamidobenzaldoxim.** Sm. 174° (*B.* 35, 2715 *C.* 1902 [2] 638).
- C<sub>11</sub>H<sub>11</sub>O<sub>5</sub>P** 1) **3-Phosphat d. 2, 3-Dioxynaphtalin-2-Methyläther.** Sm. oberh. 275° (*J. pr.* [2] 65, 536 *C.* 1902 [2] 368).
- C<sub>11</sub>H<sub>11</sub>O<sub>6</sub>N** \*1) **β-[3-Nitrophenyl]propan-αγ-Dicarbonsäure.** Sm. 205—206°. Ca + H<sub>2</sub>O, Ba, Cu, Ag (*Am.* 28, 51 *C.* 1902 [2] 702).
- \*2) **β-[4-Nitrophenyl]propan-αγ-Dicarbonsäure.** Sm. 237° (240°). Ca, Ba, Ag (*Am.* 28, 55 *C.* 1902 [2] 703; *B.* 35, 2074 *C.* 1902 [2] 205).



- $C_{11}H_{11}O_6N$  \*6) Diacetat d. 2-Nitro-1-Dioxymethylbenzol. Sm. 87—88° (*C.* 1901 [2] 70).  
 \*7) Diacetat d. 4-Nitro-1-Dioxymethylbenzol. Sm. 125° (*C.* 1901 [2] 70).  
 \*8) Phenylimidodiessigsäure-2-Carbonsäure (Anthranilodiessigsäure). Sm. 215° (D.R.P. 128 955 *C.* 1902 [1] 690).  
 $C_{11}H_{11}O_7N$  10)  $\beta$ -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 175° (*Am.* 28, 55 *C.* 1902 [2] 703; *B.* 35, 2074 *C.* 1902 [2] 205).  
 11) Trimethylester d. Pyridin-2,3,4-Tricarbonsäure. Sm. 97° (*M.* 22, 585).  
 $C_{11}H_{11}O_7N$  5) Triacetyloxyppyromekazonsäure. Sm. 123—124° *C.* 1902 [1] 1365).  
 $C_{11}H_{11}NS_4$  1) Verbindung (aus Trithiodibutolaktun). Sm. 175° (*B.* 34, 3405).  
 $C_{11}H_{11}N_2Cl$  \*1) 5-Chlor-3,4-Dimethyl-1-Phenylpyrazol. Sm. 26°; Sd. 287° (2HCl,  $PtCl_4 + 2H_2O$ ) (*B.* 34, 1300).  
 $C_{11}H_{11}N_2Br$  2) 5-Brom-3,4-Dimethyl-1-Phenylpyrazol. Sm. 51°; Sd. 210—220°<sub>100</sub> (*B.* 34, 1305).  
 $C_{11}H_{11}N_2J$  1) 5-Jod-3,4-Dimethyl-1-Phenylpyrazol. Sm. 78° (*B.* 34, 1305).  
 $C_{11}H_{11}N_3S$  5)  $\alpha$ -Amido- $\beta$ -[1-Naphtyl]thioharnstoff. Sm. 138—139° (*B.* 35, 1715 *C.* 1902 [2] 29).  
 $C_{11}H_{12}ON_2$  \*8) Antipyrin. Salze siehe (*C.* 1901 [2] 1362; *A.* 320, 45 *C.* 1902 [1] 667; *Bl.* [3] 27, 612 *C.* 1902 [2] 370).  
 \*26) 4-Keto-2-Propyl-3,4-Dihydro-1,3-Benz diazin. Sm. 199—200°. HCl, (2HCl,  $PtCl_4$ ,  $HNO_3$ ,  $H_2SO_4$ , Oxalat, Pikrat (*C.* 1901 [2] 891).  
 \*27) 4-Keto-2-Isopropyl-3,4-Dihydro-1,3-Benz diazin. Sm. 231—232°. HCl, (2HCl,  $PtCl_4$ ,  $H_2SO_4$ , Pikrat (*C.* 1901 [2] 891).  
 \*44) 3-Keto-6-[4-Methylphenyl]-2,3,4,5-Tetrahydro-1,2-Diazin (p-Tolylpyridazinon). Sm. 155—156° (*B.* 34, 3829 *C.* 1902 [1] 51).  
 48) 2-Phenylhydrazon-1-Keto-R-Pentamethylen. Sm. 203° (*A.* 317, 63).  
 49) 5-Keto-3-Aethyl-1-Phenyl-4,5-Dihydro pyrazol. Sm. 100° (*C.* 1901 [1] 1195).  
 50) 3-Keto-4-Methyl-6-Phenyl-2,3,4,5-Tetrahydro-1,2-Diazin (Methylphenylpyridazinon). Sm. 157,5° (*B.* 34, 4230 *C.* 1902 [1] 212).  
 51) Methyläther d. 2-Methylamido-8-Oxy chinolin. Sm. 151° (*B.* 35, 3681 *C.* 1902 [2] 1474).  
 52) 4-Keto-3-Methyl-2-Aethyl-3,4-Dihydro-1,3-Benz diazin. Sm. 121° *C.* 1901 [2] 890).  
 53) Amid d.  $\alpha$ -Cyan- $\beta$ -[3-Methylphenyl]propionsäure. Sm. 108,5 bis 109,5° (*C.* 1902 [2] 699).  
 $C_{11}H_{12}ON_4$  54) Phenylamid d.  $\alpha$ -Cyanbuttersäure. Sm. 86—87° (*C.* 1901 [1] 675).  
 \*6) 2-Phenylhydrazido-4-Keto-6-Methyl-3,4-Dihydro-1,3-Diazin. Zers. bei 230°. 2HCl (*G.* 31 [1] 516).  
 10) 3-[ $\alpha$ -Oximidoäthyl]-5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 211—212° (*J. pr.* [2] 64, 237).  
 $C_{11}H_{12}OBr_2$  4)  $\alpha\beta$ -Dibrom- $\gamma$ -Keto- $\alpha$ -Phenylpentan. Sm. 109—110° (*B.* 35, 969 *C.* 1902 [1] 871).  
 5)  $\alpha\beta$ -Dibrom- $\gamma$ -Keto- $\alpha$ -Phenyl- $\beta$ -Methylbutan. Sm. 61° (*B.* 35, 970 *C.* 1902 [1] 871).  
 $C_{11}H_{12}O_2N_2$  \*3)  $\gamma$ -Phenylhydrazon- $\beta\delta$ -Diketopentan ( $\gamma$ -Phenylazo- $\beta\delta$ -Diketopentan). (*B.* 35, 2188 *C.* 1902 [2] 357).  
 \*22) Imid d.  $\beta$ -Phenylamidopropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 167°. HCl (*B.* 25, 2068; *B.* 35, 2079 *C.* 1902 [2] 207).  
 31) 2,4-Diketo-3-Aethyl-1-Phenyltetrahydroimidazol. Sm. 142° (*J. pr.* [2] 66, 234 *C.* 1902 [2] 1122).  
 32) 2,4-Diketo-1-[2,4-Dimethylphenyl]tetrahydroimidazol. Sm. 146 bis 147° (*J. pr.* [2] 66, 257 *C.* 1902 [2] 1125).  
 33) 2,4-Diketo-3-Methyl-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 126—127° (*J. pr.* [2] 66, 240 *C.* 1902 [2] 1122).  
 34) 2,4-Diketo-3-Methyl-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 150—151° (*J. pr.* [2] 66, 243 *C.* 1902 [2] 1123).  
 35) 2,4-Diketo-3-Methyl-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 174—175° (*J. pr.* [2] 66, 237 *C.* 1902 [2] 1122).  
 36) Aethylester d.  $\alpha$ -Cyanbenzylamidoameisensäure. Sm. 83° (*B.* 34, 370). — \*II, 821.  
 37) Aethylester d. 2-Cyanmethylamidobenzol-1-Carbonsäure. Sm. 89° (*J. pr.* [2] 63, 397; D.R.P. 129 562 *C.* 1902 [1] 838; D.R.P. 136 779 *C.* 1902 [2] 1352).

- $C_{11}H_{12}O_2N_2$  38) Aethylester d. Indol-2-Amidoameisensäure. Sm. 110° (*G.* 32 [1] 253 *C.* 1902 [1] 1230).
- 39) Amid d.  $\alpha$ -Cyan- $\beta$ -[4-Methoxyphenyl]propionsäure. Sm. 172° (*C.* 1902 [2] 700).
- $C_{11}H_{12}O_2Br_2$  12) Dimethyläther d.  $\beta$ -Dibrom-3,4-Dioxy-1-Allylbenzol. Sm. 29,5° (*B.* 28, 2083). — \*II, 589.
- 13)  $\gamma$ - $\delta$ -Dibrom- $\delta$ -Phenylvaleriansäure. Sm. 162° (*B.* 31, 2003). — \*II, 845.
- 14) Aethylester d. Allo- $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 28—30° (*B.* 34, 3661). — \*II, 834.
- $C_{11}H_{12}O_2S$  \*2) isom.  $\beta$ -Merkaptopropenbenzyläther- $\alpha$ -Carbonsäure. Sm. 125°; Zers. bei 146—150° (*B.* 34, 2658).
- 4)  $\gamma$ -Merkapto- $\beta$ -Butenphenyläther- $\beta$ -Carbonsäure ( $\alpha$ -Methyl- $\beta$ -Thiophenylisocrotonsäure). Sm. 120—151° (*B.* 34, 2666).
- $C_{11}H_{12}O_3N_2$  18) Aethyläther d. 2,4-Diketo-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 234° (*C.* 1899 [2] 421). — \*II, 411.
- 19) Diacetylderivat d. Verb.  $C_7H_8ON_2$ . Sm. 235,5° (*B.* 35, 2714 *C.* 1902 [2] 638).
- $C_{11}H_{12}O_3Br_2$  12)  $\alpha$ -Methyläther-3,4-Methylenäther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[ $\beta$ -Brom-3,4-Dioxyphenyl]propan. Sm. 75—76,5° (*C.* 1902 [1] 1163).
- 13) Aethyläther d. 3,6-Dibrom-5-Oxy-2-Isopropyl-1,4-Benzochinon. Sm. 59—60° (*B.* 34, 1561).
- 14)  $\beta$ -[3,6-Dibrom-4-Oxy-2,5-Dimethylphenyl]propionsäure. Sm. 170 bis 171° (*B.* 34, 4290 *C.* 1902 [1] 311).
- 15) 4-Acetat d. 3,6-Dibrom-5-Oxy-4-Oxymethyl-1,2-Dimethylbenzol. Sm. 116° (*B.* 35, 798 *C.* 1902 [1] 725).
- $C_{11}H_{12}O_3S$  1) Aethylester d. S-Benzoylmerkaptocessigsäure. Sd. 185—187°<sub>15</sub>. (*Am.* 26, 198).
- $C_{11}H_{12}O_4N_2$  \*11) Diäthylester d.  $\alpha\gamma$ -Dicyanpropen- $\alpha\gamma$ -Dicarbonsäure. Sm. 181—183° Na + 2H<sub>2</sub>O (*B.* 34, 3709 *C.* 1902 [1] 49; *B.* 35, 2882 *C.* 1902 [2] 1034).
- 19) 2,3-Dicyan-1,1-Diäthyl-R-Trimethylen-2,3-Dicarbonsäure. Na<sub>2</sub> (*C.* 1901 [1] 582).
- 20) Acetat d. 4-Methylphenyloxaminsäureoxyamid. Sm. 178° u. Zers. NH<sub>4</sub>, Na (*Soc.* 79, 844).
- $C_{11}H_{12}O_4N_4$  \*1) Nitrosnitrocyttisin. Sm. 240° (*B.* 34, 611).
- $C_{11}H_{12}O_5N_2$  12) Methyl ester d. 4-Nitrophenylsuccinaminsäure (*C.* 1899 [1] 251). — \*II, 210.
- $C_{11}H_{12}O_5Hg_2$  1) 3,5-Diacetat d. 4-Oxy-1-Methylphenyldi[Quecksilberhydroxyd] + H<sub>2</sub>O. Zers. bei 200° (*C.* 1901 [1] 453; *B.* 35, 2857 *C.* 1902 [2] 1037).
- $C_{11}H_{12}O_6N_2$  2)  $\beta$ -[2-Nitro-4-Amidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 206,5° u. Zers. (*B.* 35, 2077 *C.* 1902 [2] 206).
- $C_{11}H_{12}O_7Br_2$  1) Dibromdihydropiscidinsäure? Sm. 234—236° u. Zers. (*Am.* 25, 397).
- $C_{11}H_{12}NCl$  5) 5-Chlor-2-Methyl-1-Aethylindol. Sm. 74° (D.R.P. 128660 *C.* 1902 [1] 611).
- $C_{11}H_{12}N_2S$  \*5) 3-Thiocarbonyl-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (Thiopyrin). Sm. 166°. HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>), H<sub>2</sub>SO<sub>4</sub>, + HgCl<sub>2</sub>, + AgNO<sub>3</sub> + H<sub>2</sub>O (*A.* 320, 4, 45 *C.* 1902 [1] 664).
- 6) Methyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol. Sd. 196 bis 198°<sub>30</sub> (*A.* 320, 25 *C.* 1902 [1] 665).
- $C_{11}H_{12}N_2Se$  1) 3-Selenocarbonyl-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol (Selenopyrin). Sm. 168°. (2HCl, PtCl<sub>4</sub>), Ferrocyanat, + HgCl<sub>2</sub> (*A.* 320, 32, 45 *C.* 1902 [1] 666).
- $C_{11}H_{12}N_3Cl$  4) 5-Chlor-3,4-Dimethyl-1-[4-Amidophenyl]pyrazol. Sm. 75—78° (*B.* 34, 1302).
- $C_{11}H_{13}ON$  \*35) Dimethylamid d.  $\beta$ -Phenylakrylsäure. Sm. 96° (*A.* 320, 89).
- \*36) Aethylamid d.  $\beta$ -Phenylakrylsäure. Sm. 92—93° (*A.* 320, 90).
- 41)  $\gamma$ -Oximido- $\alpha$ -Phenyl- $\alpha$ -Penten. Sm. 85—86° (*B.* 35, 968 *C.* 1902 [1] 871).
- 42)  $\gamma$ -Oximido- $\alpha$ -Phenyl- $\beta$ -Methyl- $\alpha$ -Buten. Sm. 103—104° (*B.* 35, 970 *C.* 1902 [1] 871).
- 43)  $\alpha$ -Oximidophenoheptamethylen. Sm. 108—109° (*Soc.* 79, 607).
- 44) Methylphenylamid d. Propen- $\beta$ -Carbonsäure. Sm. 57°; Sd. 177°<sub>33</sub> (*B.* 34, 2129).

- $C_{11}H_{13}ON$  45) Aethylphenylamid d. Akrylsäure. Sd. 150—160°<sub>17</sub> (B. 34, 2132).
- $C_{11}H_{13}ON_3$  13)  $\alpha$ -Cinnamylidenamido- $\alpha$ -Methylharnstoff. Sm. 155° (Soc. 79, 666).  
14) 3,4-Dimethyl-1-[4-Methylphenyl]-2,3-Dihydro-1,2,5-Triazol-2,3-Oxyd. Sm. 92—93° (G. 31 [2] 414 C. 1902 [1] 35).
- $C_{11}H_{13}OCl$  \*2) Chlormethyl-2,4,6-Trimethylphenylketon. 2 +  $Al_2Br_6$  (Am. 27, 252 C. 1902 [1] 1291).
- $C_{11}H_{13}O_3N$  55) 4-Benzoyl-3,4,5,6-Tetrahydro-1,4-Oxazin (Benzoylmorpholin). Sm. 74—75° (A. 301, 7). — \*II, 738.  
56)  $\alpha$ -[2,4-Dimethylphenyl]imidopropionsäure. Sm. 137—138° (A. ch. [7] 9, 478). — \*II, 313.  
57) 1-Methyl-1,2,3,4-Tetrahydrochinolin-6-Carbonsäure. Sm. 224° u. Zers. (B. 35, 2614 C. 1902 [2] 601).  
58) 1-Methyl-1,2,3,4-Tetrahydrochinolin-7-Carbonsäure. Sm. 185° (B. 35, 2613 C. 1902 [2] 601).  
59) 1-Methyl-1,2,3,4-Tetrahydrochinolin-8-Carbonsäure. Sm. 218 bis 219° (B. 35, 2612 C. 1902 [2] 601).
- $C_{11}H_{13}O_3N_3$  \*1)  $\alpha$ -Phenylhydrazon- $\alpha$ -Acetylamido- $\beta$ -Ketopropan. Sm. 143° (J. pr. [2] 64, 235).  
13) 3,5-Dicyan-2,6-Diketo-4,4-Diäthylhexahydropyridin. Sm. 200° (Cu + 4  $NH_3$  +  $H_2O$ ), Ag (C. 1901 [1] 582).  
14) 3,5-Dicyan-2,6-Diketo-4-Aethyl-1,4-Dimethylhexahydropyridin. Sm. 192.5° (C. 1901 [1] 579).  
15) Aethylimid d.  $\alpha\gamma$ -Dicyan- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 110,5—111,5° (C. 1901 [1] 578).
- $C_{11}H_{13}O_2Cl$  5) Chlorid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sd. 154°<sub>32</sub> (B. 34, 2061).
- $C_{11}H_{13}O_2Br$  9) Verbindung (aus 5-Oxy-1,2,4-Trimethylbenzol). Sm. 174° (B. 29, 1119). — \*II, 451.
- $C_{11}H_{13}O_3N$  \*1) Dimethyläther d. 6,7-Dioxy-1-Keto-1,2,3,4-Tetrahydroisochinolin (Corydaldin) (Soc. 81, 149 C. 1902 [1] 356).  
\*20) Aethylester d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 64—65° (J. pr. [2] 64, 83).  
55)  $\beta$ -Benzoylamidobuttersäure. Sm. 155° (B. 34, 3755 Ann.).  
56) 6-Aethylamido-1-Methylbenzol-3-Ketocarbonsäure. Sm. 132—134° u. Zers. (C. 1901 [1] 238).  
57) Aethylester d. 2-Acetylphenylamidoameisensäure. Sm. 91° (C. 1901 [2] 1228).  
58) Aethylester d.  $\alpha$ -[2-Pyridoyl]propionsäure. Fl. (2HCl, PtCl<sub>4</sub>) (B. 34, 4242 C. 1902 [1] 208).  
59) Aethylester d. 6-Methyl-2-Pyridoylessigsäure. Fl. Na, K (B. 34, 4253 C. 1902 [1] 210).  
60) 4-Amidoformiat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 124° (D.R.P. 58129). — \*II, 588.  
61) Acetat d. 4-Acetylmethylamido-1-Oxybenzol. Sm. 97—98° (D.R.P. 93307). — \*II, 402.
- $C_{11}H_{13}O_3N_3$  13) Nitrocytisin. Sm. 185—188°. HCl (B. 34, 613).  
14) Aethylester d.  $\alpha$ -Phenylhydrazon- $\beta$ -Oximidopropionsäure? Sm. 162° (G. 31 [1] 585).
- $C_{11}H_{13}O_3Cl$  3) Oxyessig-2-Oxy-4-[2-Chlorpropyl]phenyläthersäure? Sm. 70° (D.R.P. 108241 C. 1900 [1] 1116). — \*II, 535.
- $C_{11}H_{13}O_3Br$  6) Oxyessig-2-Oxy-4-[2-Brompropyl]phenyläthersäure? Sm. 75° (82°) (D.R.P. 108241 C. 1900 [1] 1116).
- $C_{11}H_{13}O_3Br_3$  2) 2,4-Dimethyläther d. 3,6-Dibrom-5-Oxy-1-Brommethyl-2,4-Di[Oxy-methyl]benzol. Sm. 113—114° (B. 35, 142 C. 1902 [1] 467).
- $C_{11}H_{13}O_4N$  \*21) Dimethylester d. Phenylamidoessigsäure-2-Carbonsäure. Sm. 93 bis 94° (C. 1901 [1] 1127).  
\*29) 2-Aethylester d. Benzol-1-Carbonsäure-2-Amidoessigsäure. Sm. 145—150° (C. 1901 [2] 382).  
\*31) Phenylmethancarbonsäureamidoameisensäureäthylester. Sm. 118 bis 120° (B. 34, 374).  
\*41) 1-Aethylester d. Benzol-1-Carbonsäure-2-Amidoessigsäure. Sm. 167° (C. 1901 [2] 382; D.R.P. 136779 C. 1902 [2] 1352).  
46) 5-Acetylamido-2-Oxybenzoläthyläther-1-Carbonsäure. Sm. 189 bis 190° (D.R.P. 71258). — \*II, 898.

- C<sub>11</sub>H<sub>13</sub>O<sub>4</sub>N** 47) Benzol-1-Carbonsäure-2-Aethylamidoessigsäure. Sm. 184—186° u. Zers. (*B.* 35, 1699 *C.* 1902 [1] 1363).  
 48)  $\alpha$ -Phenylamidoformoxylbuttersäure. Sm. 116,5—117,5° (*Bl.* [3] 27, 606 *C.* 1902 [2] 342).  
 49)  $\beta$ -[4-Amidophenyl]propan- $\alpha$ - $\gamma$ -Dicarbonsäure. Sm. 217° u. Zers. Cu + 2H<sub>2</sub>O (*B.* 35, 2075 *C.* 1902 [2] 206).  
 50) Methyl ester d. Propionyl-4-Oxyphenylamidoameisensäure. Sm. 86—87° (D.R.P. 69328). — \*II, 404.  
 51) Dimethylester d. Phenylamidomalonsäure. Sm. 68°. HCl (*B.* 35, 511 *C.* 1902 [1] 657).  
 52) Aethylester d. 4-Nitro-1-Aethylbenzol-2-Carbonsäure. Sd. 290° u. Zers. (*B.* 29, 2537). — \*II, 838.  
 53) Aethylester d. 5-Nitro-1-Aethylbenzol-2-Carbonsäure. Sd. 290° u. Zers. (*B.* 29, 2537). — \*II, 838.  
 54) Aethylester d. Acetyl-2-Oxyphenylamidoameisensäure. Sm. 77 bis 78° (*B.* 19, 2270; *Am.* 23, 14). — II, 706; \*II, 389.  
 55) Aethylester d. Acetyl-4-Oxyphenylamidoameisensäure. Sm. 87° (D.R.P. 69328). — \*II, 404.  
 56) Methyl ester-4-Acetylmethylamidophenylester d. Kohlensäure. Sm. 145—146° (D.R.P. 89595). — \*II, 404.
- C<sub>11</sub>H<sub>13</sub>O<sub>4</sub>N<sub>3</sub>** 10) Phenylureidoacetylamidoessigsäure. Sm. 175° u. Zers. (*B.* 34, 2874).
- C<sub>11</sub>H<sub>13</sub>O<sub>4</sub>J** 2) Diacetat d. 2-Jodoso-1-Methylbenzol. Sm. 130—132° (*G.* 30 [2] 5). — \*II, 39.
- C<sub>11</sub>H<sub>13</sub>O<sub>6</sub>N** \*5) Diäthylester d. 2,6-Dioxypyridin-3,5-Dicarbonsäure. Sm. 199°. NH<sub>3</sub> (*B.* 35, 2882 *C.* 1902 [2] 1034).  
 \*9) Diäthylester d. 2,6-Dioxypyridin-3,4-Dicarbonsäure. Sm. 157° (161—162°) (*B.* 34, 3713 *C.* 1902 [1] 50; *B.* 34, 4165 *C.* 1902 [1] 265).  
 10) Säure (aus Propylidenbistetransäure). Sm. 158° (*A.* 315, 157).
- C<sub>11</sub>H<sub>13</sub>NS<sub>2</sub>** 2) Methyl ester d. 1,2,3,4-Tetrahydroisochinolin-2-Dithiocarbonsäure. Sm. 70° (*C. r.* 134, 715 *C.* 1902 [1] 977).
- C<sub>11</sub>H<sub>13</sub>N<sub>2</sub>J** 15) Jodmethylat d. 1-Benzylimidazol (*B.* 35, 2458 *C.* 1902 [2] 527).
- C<sub>11</sub>H<sub>13</sub>N<sub>3</sub>S<sub>2</sub>** 3)  $\alpha$ -Trimethylenäther d. Phenylidiimidomerkaptoethylamin (Pseudotrimethylenphenyldithiobiuret). Sm. 173° (*C.* 1902 [1] 1401).
- C<sub>11</sub>H<sub>14</sub>ON<sub>2</sub>** \*1) Cytisin (*C.* 1902 [1] 21).  
 \*3)  $\gamma$ -Phenylhydrazon- $\beta$ -Ketopentan. Sm. 117° (*C.* 1901 [1] 299).  
 \*5)  $\gamma$ -[4-Methylphenyl]hydrazon- $\beta$ -Ketobutan. Sm. 119—120° (161°) (*A.* 247, 225; *Bl.* [3] 27, 338).  
 28)  $\alpha$ -Methyl- $\beta$ -Allyl- $\alpha$ -Phenylharnstoff. Fl. (*B.* 33, 662). — \*II, 185.  
 29)  $\gamma$ -[2-Methylphenyl]hydrazon- $\beta$ -Ketobutan. Sm. 130—131° (*Bl.* [3] 27, 338 *C.* 1901 [1] 299).  
 30) Benzylidenhydrazid d. Buttersäure. Sm. 97° (*Bl.* [3] 27, 1054 *C.* 1902 [2] 1411).
- C<sub>11</sub>H<sub>14</sub>OBr<sub>2</sub>** 2) Aethyläther d. 3,6-Dibrom-5-Oxy-1,2,4-Trimethylbenzol. Sm. 55 bis 56° (*B.* 35, 150 *C.* 1902 [1] 468).
- C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>N<sub>2</sub>** \*17)  $\alpha$ -Phenylhydrazonisovaleriansäure. Sm. 156—157° (*C.* 1901 [1] 726).  
 \*24) Aethylester d.  $\alpha$ -Phenylhydrazonpropionsäure. Sm. 116—117° (117—118°) (*J. pr.* [2] 64, 243 Anm.; *C.* 1901 [2] 324).  
 40) 3,5-Di[Acetylamido]-1-Methylbenzol. Sm. 236—237° (235—236°) (*Soc.* 81, 874 *C.* 1902 [2] 32, 445).  
 41) Oxyeytisin. Sm. 223—226° u. Zers. 2HCl, (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub> (*B.* 34, 605).  
 42)  $\alpha$ - $\beta$ -Diacetyl- $\alpha$ -Methyl- $\beta$ -Phenylhydrazin. Sm. 76—77° (*C.* 1901 [1] 400).  
 43)  $\alpha$ -[2-Methylphenyl]hydrazonbuttersäure. Sm. 148—149° (156°) (*C.* 1901 [2] 212; *Bl.* [3] 27, 328 *C.* 1902 [1] 1205).  
 44) Aethylester d.  $\beta$ -Phenylhydrazonpropionsäure. Sm. 54—57° (*A.* 316, 35).  
 45) Isopropylidenhydrazid d.  $\alpha$ -Oxyphenylessigsäure. Sm. 134—135° (*B.* 34, 2798).
- C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>Br<sub>2</sub>** 7) Dimethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[3-Brom-4-Oxyphenyl]propan. Sm. 73—74°; Sd. 160—164°<sub>14</sub> (*C.* 1902 [1] 1162).
- C<sub>11</sub>H<sub>14</sub>O<sub>2</sub>S** 2)  $\gamma$ -[2,4-Dimethylphenyl]sulfonpropen (Allyl-2,4-Dimethylphenylsulfon). 2 isom. Formen (*J. pr.* [2] 66, 151 *C.* 1902 [2] 737).

- $C_{11}H_{14}O_2N_2$  \*39) 2-Amid d. Benzol-1-Carbonsäure-2-Amidoessigsäure-1-Aethyl-  
ester. Sm. 180° (D.R.P. 136779 C. 1902 [2] 1352).
- 43) Methyläther d. 2,3-Di[Acetylamido]-1-Oxybenzol. Sm. 166—167°  
(*Soc.* 81, 993 C. 1902 [2] 697).
- 44) Phenylureidobuttersäure. Sm. 148° (B. 34, 3755).
- 45) Aethyl ester d.  $\alpha$ -[4-Methylphenyl]harnstoff- $\beta$ -Carbonsäure. Sm.  
145° (*Soc.* 79, 844).
- 46) Amid d. Phenylmethancarbonsäureamidoameisenäthylester. Sm.  
202—203° (206—207° cor.) (B. 34, 371). — \*II, 821.
- $C_{11}H_{14}O_3N_4$  2) Aethyl ester d.  $\alpha$ -Phenylhydrazon- $\beta$ -Oximido- $\beta$ -Amidopropionsäure.  
Zers. bei 165° (G. 31 [1] 585).
- 3) Hydrazid d. Benzoylamidoacetylamidoessigsäure. Sm. 227—229°  
(B. 35, 3227 C. 1902 [2] 1043).
- $C_{11}H_{14}O_3Br_2$  4)  $\alpha$ ,3-Dimethyläther d. 5-Brom-3,4-Dioxy-1- $[\beta$ -Brom- $\alpha$ -Oxypropyl]-  
benzol. Sm. 104—105° (B. 35, 118 C. 1902 [1] 474).
- 5) 2,4-Dimethyläther d. 3,6-Dibrom-5-Oxy-1-Methyl-2,4-Di[Brom-  
methyl]benzol. Sm. 94° (B. 35, 142).
- $C_{11}H_{14}O_4N_2$  25)  $\beta$ -[2,4-Diamidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Cu + H<sub>2</sub>O (B.  
35, 2077 C. 1902 [2] 206).
- 26) Lakton d. Oxyisopilocarpinsäure + H<sub>2</sub>O. Sm. 83° (*Soc.* 79, 594).
- 27) Aethyl ester d.  $\beta$ -[2-Furanoyl]hydrazonbuttersäure. Sm. 234° (J. pr.  
[2] 65, 30 C. 1902 [1] 460).
- 28) Diäthylester d.  $\alpha\gamma$ -Dicyanpropan- $\alpha\gamma$ -Dicarbonsäure. Fl. (A. 285,  
322). — \*I, 685.
- 29) Phenylamidoformiat d. Hydroxylamidoessigsäureäthylester. Sm.  
85° (Bl. [3] 25, 925).
- 30) Amid d. 4-Laktylamidophenoxylessigsäure. Sm. 175—177° (C. 1899  
[2] 462). — \*II, 409.
- $C_{11}H_{14}O_4S$  6) 2,4,5-Trimethylphenylsulfonessigsäure. Sm. 62° (J. pr. [2] 66, 143  
C. 1902 [2] 797).
- $C_{11}H_{14}O_4S_2$  2) 1,3-Isopropylidendi[Sulfonmethyl]benzol. Sm. oberh. 300° (B. 34,  
1775).
- $C_{11}H_{14}O_5N_2$  8)  $\alpha$ -Amid d.  $\gamma$ -Cyanpropen- $\alpha\gamma$ -Tricarbonsäure- $\alpha\gamma$ -Diäthylester? (G.  
27 [2] 393). — \*I, 788.
- 9) Monamid d. 6-Oxy-2-Keto-1-Aethyl-1,2-Dihydropyridin-3,5-Di-  
carbonsäuremonoäthylester. Sm. 184—185° (B. 35, 244).
- $C_{11}H_{14}O_5N_4$  C 46,8 — H 5,0 — O 28,4 — N 19,8 — M. G. 282.
- $C_{11}H_{14}O_5S$  1) Triacetylisopuron. Sm. 197° (B. 34, 273).
- 1) Aethyl ester d. 2-Methoxyphenylsulfonessigsäure. Fl. (J. pr. [2]  
66, 147 C. 1902 [2] 797).
- $C_{11}H_{15}ON$  \*70) Isobutylamid d. Benzolcarbonsäure. Sm. 57°; Sd. 295—296° u. Zers.  
HCl, Na (*Soc.* 79, 406).
- 71) Aethyläther d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Oxyäthan. HCl (*Soc.*  
81, 597 C. 1902 [1] 1056).
- 72)  $\gamma$ -Oximido- $\alpha$ -Phenylpentan. Fl. (B. 35, 969 C. 1902 [1] 871).
- 73) Aethyläther d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Oxyäthan. Sd. 222°<sub>740</sub>.  
HCl, (2HCl, PtCl<sub>4</sub>) (*Soc.* 79, 693).
- 74) Aethyläther d.  $\alpha$ -[4-Methylphenyl]imido- $\alpha$ -Oxyäthan. Sd. 232°.  
HCl (*Soc.* 79, 696).
- $C_{11}H_{15}ON_3$  10)  $\alpha$ -Oximido- $\alpha$ -Phenylazopentan. Sm. 103—103,5° (B. 35, 1093 C. 1902  
[1] 996).
- 11)  $\gamma$ -Oximido- $\beta$ -[2-Methylphenyl]hydrazonbutan. Sm. 175° (G. 31 [2]  
415 C. 1902 [1] 35).
- 12)  $\gamma$ -Oximido- $\beta$ -[4-Methylphenyl]hydrazonbutan. Sm. 169° (G. 31 [2]  
414 C. 1902 [1] 35).
- 13) Isopropyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan. Fl. (B. 35, 755).
- 14)  $\alpha$ -Semicarbazon- $\alpha$ -Phenylbutan. Sm. 188° (B. 35, 1074 C. 1902 [1] 930).
- 15)  $\alpha$ -Semicarbazon- $\alpha$ -[2-Methylphenyl]propan. Sm. 173° (C. r. 133,  
1218 C. 1902 [1] 299).
- 16) 4-Semicarbazonmethyl-1-Isopropylbenzol. Sm. 201—202° (J. pr. [2]  
66, 55 C. 1902 [2] 520).
- 17) Amidocytisin. Fl. 2HCl (B. 34, 615).
- 18) Verbindung (aus Methylhexylketon, Cyanessigsäureäthylester u. NH<sub>3</sub>).  
Sm. 152° (C. 1897 [1] 904). — \*I, 677.



- $C_{11}H_{15}ON_5$  C 56,6 — H 6,4 — O 6,9 — N 30,0 — M. G. 233.  
 1)  $\beta$ -Phenylhydrazon- $\gamma$ -Semicarbazonbutan. Sm. 229—230° (B. 34, 3977 C. 1902 [1] 192).
- $C_{11}H_{15}OJ$  1) 4-Jodoso-1-Isoamylbenzol. Sm. 162° u. Zers. (B. 34, 3681).
- $C_{11}H_{15}O_2N$  \*58) Phenylamid d.  $\alpha$ -Oxyisovaleriansäure. Sm. 133° (Bl. [3] 27, 610 C. 1902 [2] 342).  
 71) Aethyl-2-Methylphenylamidoessigsäure. Sm. 63—64° (D.R.P. 61712). — \*II, 258.  
 72) Aethyl-4-Methylphenylamidoessigsäure. Fl. (D.R.P. 63309). — \*II, 282.  
 73) Aethylester d.  $r$ - $\alpha$ -Phenylamidopropionsäure. Sd. 143°<sub>10</sub>. Pikrat (B. 34, 450). — \*II, 836.  
 74) Aethylester d.  $\beta$ -Phenyläthylamidoameisensäure. Sm. 33,5° (J. pr. [2] 64, 306).  
 75) Isobutylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 156—157°<sub>13,5</sub> (B. 33, 29). — \*II, 780.  
 76) Acetat d. 2-Dimethylamido-4-Oxy-1-Methylbenzol. Sd. 195°<sub>90</sub> (C. 1902 [2] 377).  
 77) Amidoformiat d. 2-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 120° (D.R.P. 58129). — \*II, 459.  
 78) Nitril d.  $\alpha$ -Oxycamphercarbonsäure ( $\alpha$ -Dihydroxycycancampher). Sm. 197—198° (Soc. 79, 381).  
 79) Amid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 143° (B. 34, 1838).  
 80) Aethylphenylamid d.  $\alpha$ -Oxypropionsäure. Sm. 83,5° (D.R.P. 70250). — \*II, 204.  
 81) Phenylamid d.  $\alpha$ -Oxyvaleriansäure. Sm. 89—90° (Bl. [3] 27, 607 C. 1902 [2] 342).
- $C_{11}H_{15}O_2N_3$  \*5)  $\alpha$ -Phenylhydrazon- $\alpha$ -Nitropentan. Sm. 92,5—93° (B. 34, 2004).  
 \*6) isom.  $\alpha$ -Phenylhydrazon- $\alpha$ -Nitropentan. Sm. 51,5—52° (B. 34, 2004).  
 18) Methyläther d.  $\beta$ -Semicarbazon- $\alpha$ -[4-Oxyphenyl]propan. Sm. 182° (Bl. [3] 27, 991).  
 19) 2,4-Dimethylphenyläther d.  $\beta$ -Semicarbazon- $\alpha$ -Oxyäthan. Sm. 116 bis 117° (B. 30, 1708). — \*II, 443.  
 20) 2,5-Dimethylphenyläther d.  $\beta$ -Semicarbazon- $\alpha$ -Oxyäthan. Sm. 104° (B. 30, 1708). — \*II, 446.  
 21) 3,4-Dimethylphenyläther d.  $\beta$ -Semicarbazon- $\alpha$ -Oxyäthan. Sm. 187° (B. 30, 1708). — \*II, 440.
- $C_{11}H_{15}O_2Br$  3) Dimethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. Fl. (C. 1902 [1] 1162).
- $C_{11}H_{15}O_3J$  1) 4-Jodo-1-Isoamylbenzol. Explodiert bei 200—203° (B. 34, 3682).
- $C_{11}H_{15}O_2As$  1) Diäthylphenylarsin-4-Carbonsäure. Sm. 58°. Ba, + HgCl<sub>2</sub> (A. 320, 309 C. 1902 [1] 921).
- $C_{11}H_{15}O_3N$  \*11) Aethylester d. 1- $\alpha$ -Amido- $\beta$ -[4-Oxyphenyl]propionsäure. Sm. 108 bis 109° (B. 34, 451).  
 24) 1-Methyläther-2-Aethyläther d. 5-Acetylamido-1,2-Dioxybenzol. Sm. 145—146° (C. 1901 [1] 739).  
 25) Amyläther d. 4-Nitro-1-Oxybenzol. Sd. 309—310° u. Zers. (B. 34, 1942).  
 26) 3,4-Dimethyläther d.  $\alpha$ -Oximido- $\beta$ -[3,4-Dioxyphenyl]propan. Sm. 77° (C. 1902 [1] 1057).  
 27) Ammoniumbase + 3H<sub>2</sub>O (aus Trimethylchinolid). Sm. 259° u. Zers. (wasserfrei) (A. 322, 369 C. 1902 [2] 736).  
 28) Anhalamin. Sm. 185,5°. HCl + 2H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub>), H<sub>2</sub>SO<sub>4</sub> (B. 34, 3005).  
 29) Methylester d. 4-Oxy- $\beta$ -Dimethylamidomethylbenzol-1-Carbonsäure. Sm. 85° (C. 1901 [1] 1394).  
 30) Methylester d. 4-Aethoxymethylamidobenzol-1-Carbonsäure. Sm. 209° (C. 1902 [2] 955).  
 31) Diäthylamid d. 3-Oxyphenylkohlsäure. Sm. 68—69° (A. 317, 200).  
 32) 4-Aethoxyphenylamid d.  $\alpha$ -Oxypropionsäure (Laktopenin). Sm. 117,5—118° (D.R.P. 70250, 81539, 85212, 90595). — \*II, 408.  
 33) 4-Aethoxyphenylamid d. Oxyessigmethyläthersäure. Sm. 98—99° (C. 1897 [1] 1216). — \*II, 408.

- $C_{11}H_{15}O_3N_3$  4) 6-Nitro-3-Acetylamido-4-Dimethylamido-1-Methylbenzol. Sm. 142,5 bis 143° (B. 34, 1131).
- 5) Aethyl ester d.  $\beta$ -Imido- $\beta$ -Hydroxylamido- $\alpha$ -Phenyläthylamido-ameisensäure. Sm. 135°. HBr (B. 34, 374). — \*II, 821.
- $C_{11}H_{15}O_3Br$  6)  $\alpha$ -Methylamid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäure-äthylester. Sm. 131° (B. 34, 2332).
- 3)  $\alpha$ ,3-Methyläther d. 3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol. Fl. (B. 35, 122 C. 1902 [1] 474).
- $C_{11}H_{15}O_3As$  1) Diäthylphenylarsenoxyd-4-Carbonsäure. HCl, (HCl, HgCl<sub>2</sub>), HBr, HJ (A. 320, 306, 310 C. 1902 [1] 921).
- $C_{11}H_{15}O_4N_3$  4) Pinendinitrocyamid. Sm. 105° u. Zers. (C. 1902 [2] 364).
- $C_{11}H_{15}O_4Br$  2)  $\beta$ ,3-Dimethyläther d. 5-Brom-3,4-Dioxy-1-[ $\alpha$ - $\beta$ -Dioxypropyl]benzol. Sm. 134—135° (B. 35, 121 C. 1902 [1] 474).
- $C_{11}H_{15}O_4As$  1) Kakodylzimmtsäure (C. 1901 [1] 227). — \*II, 850.
- $C_{11}H_{15}O_5N$  2) Diäthylester d.  $\alpha$ -Cyan- $\beta$ -Oxypropenmethyläther- $\alpha\gamma$ -Dicarbon-säure. Sm. 70° (C. 1901 [1] 883).
- $C_{11}H_{15}O_7Cl$  1) l-Triacetylchlorarabinose. Sm. 150—152° (148—149°) (Soc. 79, 706; C. r. 134, 662 C. 1902 [1] 911).
- $C_{11}H_{15}O_8Br$  1) l-Triacetyl bromarabinose. Sm. 137° (C. r. 134, 661 C. 1902 [1] 911).
- $C_{11}H_{15}NS$  6) Pinylsenföhl. Sd. 142—143°<sub>14</sub> (B. 35, 832 C. 1902 [1] 713).
- $C_{11}H_{15}NS_2$  \*) Aethyl ester d. Aethylphenylamidodithioameisensäure. Sm. 68,5°; Sd. 315° (Bl. [3] 27, 809 C. 1902 [2] 695).
- 2) Propylester d. Benzylamidodithioameisensäure. Sm. 63° (B. 35, 3383 C. 1902 [2] 1363).
- $C_{11}H_{15}N_3J$  3) Jodmethylat d. 1,4,6- oder 1,5,7-Trimethylbenzimidazol. Sm. 278 bis 279° (B. 34, 4206 C. 1902 [1] 262).
- $C_{11}H_{15}Cl_2J$  1) 4-Isoamylphenyljodidechlorid. Sm. 84° u. Zers. (B. 34, 3681).
- $C_{11}H_{16}ON_2$  \*) 29) Phenylhydrazid d. Isovaleriansäure. Sm. 110—111° (B. 34, 179).
- 32) 4-Acetylamido-2-Dimethylamido-1-Methylbenzol. Sm. 103° (C. 1902 [2] 377).
- 33) Pinennitrosocyanid. Sm. 171° (C. 1902 [2] 363).
- 34) 2-Oxy-1,2,3,5-Tetramethyl-2,3-Dihydrobenzimidazol. Sm. 148° (B. 20, 1887; B. 35, 1264 C. 1902 [1] 1062). — IV, 882.
- 35) 2-Oxy-1,3,4,6-Tetramethyl-2,3-Dihydrobenzimidazol. Sm. 135° (B. 34, 4206 C. 1902 [1] 262).
- 36) Verbindung (aus Pinennitrosocyanid). Sm. 220° u. Zers. (C. 1902 [2] 364).
- $C_{11}H_{16}O_2N_2$  \*) 1) Pilocarpin. Sm. 34°. + HgCl<sub>2</sub> (B. 35, 192, 209 C. 1902 [1] 431; B. 35, 2441 C. 1902 [2] 524).
- \*) 14) Isopilocarpin. + HgCl<sub>2</sub> (B. 35, 197, 201 C. 1902 [1] 432).
- 16) 4-Nitro-2-Diäthylamido-1-Methylbenzol. Sd. 295—297°<sub>737,5</sub> (283°) (C. 1902 [2] 378; B. 35, 335 C. 1902 [1] 594).
- 17) 5-Nitroso-2-Diäthylamido-4-Oxy-1-Methylbenzol. Sm. 77° (D.R.P. 83432). — \*II, 438.
- 18) 4-Acetylamido-1-Oxy- $\beta$ -Dimethylamidomethylbenzol. Sm. 110° (D.R.P. 92309). — \*II, 438.
- 19) Isobutyläther d. 4-Oxyphenylharnstoff. Sm. 156° (B. 34, 1946).
- 20) Pyrazol (aus 5-Keto-1-Oxy-2,4-Diacetyl-1-Methylhexahydrobenzol). Sm. 89° (A. 323, 111 C. 1902 [2] 786).
- $C_{11}H_{16}O_3N_4$  6) 2,6-Diketo-3,7,8-Triäthylpurin. Sm. 210—212° (D.R.P. 128 212 C. 1902 [1] 549).
- $C_{11}H_{16}O_3S$  7) Propyl-2,4-Dimethylphenylsulfon. Sm. 68—69° (J. pr. [2] 66, 150 C. 1902 [2] 797).
- $C_{11}H_{16}O_4N_2$  4) Phenylhydrazon d. Arabinose. Sm. 150—151° (153°) (C. r. 134, 663 C. 1902 [1] 663; Bl. [3] 27, 395 C. 1902 [1] 1322).
- 5) Isopilocarpinsäure. Fl. Ba (Soc. 79, 582).
- 6) Phenylhydrazid d. Methyltetrönsäure. Sm. 169° (B. 35, 2367 C. 1902 [2] 511).
- $C_{11}H_{16}O_5N_2$  \*) 8) Pilocarpoënsäure. Ba + 2H<sub>2</sub>O (B. 35, 207 C. 1902 [1] 433).
- 9) Oxyisopilocarpinsäure. Ba + 4H<sub>2</sub>O, Ag (Soc. 79, 596).
- 10)  $\beta$ -Amid d.  $\beta$ -Cyan- $\gamma$ -Oxy- $\epsilon$ -Keto hexanäthyläther- $\beta\delta$ -Dicarbonsäure. Sm. 256° u. Zers. (B. 34, 3695 C. 1902 [1] 47).
- 11) Phenylhydrazid d. Apionsäure. Sm. 126—127° (A. 321, 79 C. 1902 [1] 912).

- $C_{11}H_{16}O_3N_2$  12) Phenylhydrazid d. 1-Xylonsäure. Sm. 129° u. Zers. (B. 35, 1474 C. 1902 [1] 1160).
- $C_{11}H_{16}O_3S$  1) Isobutylester d. 2-Methoxyphenylschwefelsäure. Sd. 210° u. Zers. (D. R. P. 75456). — \*II, 548.
- $C_{11}H_{16}O_3Hg_2$  1) Acetat d. Dimerkurimalonsäurediäthylester + 2H<sub>2</sub>O (B. 35, 2580 C. 1902 [2] 570).
- $C_{11}H_{16}NCl$  \*2) Chlormethylat d. 1-Methyl-1,2,3,4-Tetrahydrochinolin. 2 + PtCl<sub>4</sub> (B. 35, 773 C. 1902 [1] 720).
- $C_{11}H_{16}NJ$  \*3) Jodmethylat d. 1-Methyl-1,2,3,4-Tetrahydrochinolin. Sm. 176° (B. 35, 773 C. 1902 [1] 720; B. 35, 3584 C. 1902 [2] 1385).
- \*5) Jodmethylat d. 2-Methyl-1,2,3,4-Tetrahydroisochinolin. Sm. 189° (B. 34, 3988 C. 1902 [1] 210).
- $C_{11}H_{17}ON$  \*11) Verbindung (aus Carbofenchonon) (A. 315, 276).
- 16) 2-Diäthylamido-4-Oxy-1-Methylbenzol. Sm. 46°. HCl (C. 1902 [2] 378).
- 17) Amylätber d. 4-Amido-1-Oxybenzol. Fl. Zers. bei 90°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 1942).
- 18) 4,5-Dimethyl-3-[δ-Methyl-γ-Pentenyl]isoxazol. Sd. 127—129° (Bl. [3] 27, 66 C. 1902 [1] 566).
- 19) Methylphedrin. Sm. 59—62°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (Ar. 240, 493 C. 1902 [2] 1327).
- 20) Amid d. 3-Methyl-1-Aethyl-1,2-Dihydrobenzol-5-Methylcarbon-säure. Sm. 123° (A. 323, 147 C. 1902 [2] 842).
- $C_{11}H_{17}ON_3$  16) α-Oximido-α-Phenylhydrazidopentan. Sm. 100,5—101° (B. 35, 1093 C. 1902 [1] 996).
- $C_{11}H_{17}O_2N$  \*5) Monooxim d. Carbofenchonon. Sm. 108—109° (A. 315, 276).
- \*13) Aethylester d. Anhydroecgonin. Sd. 136—139°<sub>16</sub> (A. 317, 234).
- \*15) β-Nitril d. Camphersäuremonomethylester (Bl. [3] 27, 682 C. 1902 [2] 431).
- \*16) Methylimid d. Camphersäure (Bl. [3] 27, 682 C. 1902 [2] 431).
- 19) β-Methylisimid d. Camphersäure. Sm. 85—86,5°; Sd. 255—258° u. ger. Zers. (HCl, AuCl<sub>3</sub>) (R. 14, 269). — \*I, 782.
- $C_{11}H_{17}O_2N_8$  3) Semicarbazon d. Campherchinon. Sm. 228—229° u. Zers. (Soc. 79, 381).
- $C_{11}H_{17}O_3N$  \*3) Trimethylätber d. 3,4,5-Trioxy-1-Methylamidomethylbenzol (Mezcalin) (B. 34, 3008).
- \*9) Isoamylester d. α-Cyan-β-Oxyakrylätberläthersäure. Sd. 211°<sub>35</sub> (Bl. [3] 25, 26).
- 11) Amid d. α-Oxycamphercarbonsäure. Sm. 235—240° (Soc. 79, 382).
- $C_{11}H_{17}O_3N_3$  2) 1-Amid d. 3,5-Dimethylpyrazol-1-Carbonsäure-4-[Aethyl-α-Carbonsäureäthylester]. Sm. 114—115° (C. 1902 [2] 346).
- $C_{11}H_{17}O_4N$  \*2) Diäthylester d. δ-Cyanbutan-αα-Dicarbonsäure. Sd. 175°<sub>11—12</sub> (C. 1902 [1] 985; B. 35, 3773 C. 1902 [2] 1414).
- 8) Diäthylester d. α-Cyanbutan-αα-Dicarbonsäure. Sd. 155—157°<sub>28</sub> (C. 1901 [1] 675).
- 9) Diäthylester d. α-Cyanbutan-αβ-Dicarbonsäure. Sd. 167—168°<sub>20</sub> (Soc. 79, 1348 C. 1902 [1] 51).
- $C_{11}H_{17}O_4Br$  3) Monomethylester d. β-Bromcamphersäure. Sm. 140° (Soc. 81, 1468 C. 1902 [2] 1466).
- $C_{11}H_{17}O_4P$  \*1) Phosphinsäure + 1/2 H<sub>2</sub>O (aus Oxymethylenecampher). Sm. 113—115° (wasserfrei). NH<sub>4</sub>, Pb, Ag, Anilinsalz (B. 34, 1296).
- $C_{11}H_{17}O_5N$  2) Säure (aus Pilocarpin). Ba (B. 34, 734).
- $C_{11}H_{17}NS$  1) Camphylsenföhl. Sd. 160°<sub>25</sub> (B. 35, 832 C. 1902 [1] 713).
- 2) Thujylsenföhl. Sd. 126—128°<sub>14</sub> (B. 35, 832 C. 1902 [1] 713).
- $C_{11}H_{17}J_2As$  1) Jodmethyldiäthylphenylarsoniumjodid. Sm. 173° (A. 320, 297 C. 1902 [1] 920).
- $C_{11}H_{18}O_2N_2$  \*5) Dioxim d. Carbofenchonon. Sm. 198—199° (A. 315, 276).
- $C_{11}H_{18}O_3N_2$  C 58,4 — H 8,0 — O 21,2 — N 12,4 — M. G. 226.
- \*1) Isopilocarpinsäure + H<sub>2</sub>O. (2HCl, PtCl<sub>4</sub>) (B. 35, 201 C. 1902 [1] 432).
- $C_{11}H_{18}O_4Cl_2$  1) Methylenester d. 2-Chlorvaleriansäure. Sd. 60°<sub>15</sub> (C. r. 134, 717 C. 1902 [1] 975).
- $C_{11}H_{18}O_4Br_2$  4) Diäthylester d. αγ-Dibrom-ββ-Dimethylpropan-αγ-Dicarbonsäure. Sd. 194°<sub>30</sub> (Soc. 79, 754).
- $C_{11}H_{18}O_6N_6$  C 40,0 — H 5,4 — O 29,1 — N 25,5 — M. G. 350.

- $C_{11}H_{18}O_6N_8$  1) Hexamid d. Pentan- $\alpha\alpha\gamma\gamma\delta\delta$ -Hexacarbonsäure. Sm. 230—235° (*J. pr.* [2] 66, 127 *C.* 1902 [2] 734).
- $C_{11}H_{18}NCl$  2) Methyldiäthylphenylammoniumchlorid.  $2 + 3HgCl_2$ ,  $2 + PtCl_4$  (*G.* 23 [2] 538). — \*II, 154.
- $C_{11}H_{18}ClAs$  1) Methyldiäthylphenylarsoniumchlorid. Fl.  $2 + PtCl_4$  (*A.* 320, 296 *C.* 1902 [1] 920).
- $C_{11}H_{18}JAs$  1) Methyldiäthylphenylarsoniumjodid. Sm. 122° (*A.* 320, 296 *C.* 1902 [1] 920).
- $C_{11}H_{19}ON$  8) 3-Keto-2-Amidomethylen-4-Isopropyl-1-Methylhexahydrobenzol (Amidomethylenmenthon). Sm. 115° (*C.* 1901 [1] 1025).
- 9) 4,5-Dimethyl-3-[ $\delta$ -Methylamyl]isoxazol. Sd. 133—135°<sub>20</sub> (*Bl.* [3] 27, 65 *C.* 1902 [1] 566).
- $C_{11}H_{19}ON_3$  \*13) Semicarbazon d. Carvotanacetone. Sm. 177° (*B.* 34, 1934).
- \*25)  $\beta$ -Cyklo-Citralsemicarbazon (*B.* 34, 2451).
- 28)  $\delta$ -Semicarbazon- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Oktadien. Sm. 145° (*C.* 1901 [1] 651).
- 29) d-4-Semicarbazon-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 173—174° (*B.* 34, 1930).
- 30)  $\alpha$ -Cyklo-Citralsemicarbazon. Sm. 206° (*D. R. P.* 133758 *C.* 1902 [2] 614).
- 31) Semicarbazon d. Lippial. Sm. 171° (*C.* 1901 [1] 712).
- 32) Semicarbazon d. Aldehyd  $C_{10}H_{18}O$  (aus Myrcenol). Sm. 195—196° (*Bl.* [3] 25, 689).
- $C_{11}H_{19}O_2N$  11) Monoxim d. 3-Isobutyryl-4-Keto-1,2-Dimethyl-R-Pentamethylen. Sd. 162—163°<sub>10</sub> (*Bl.* [3] 27, 69 *C.* 1902 [1] 567).
- 12) Methylester d. Lupininsäure. Sd. 131°<sub>15</sub>. ( $2HCl$ ,  $PtCl_4$ ) (*B.* 35, 1920 *C.* 1902 [2] 132).
- $C_{11}H_{19}O_2N_3$  5) Semicarbazon d. isom. Oxycampher (aus Oxycampheräthyläther). Sm. 202—204° (*B.* 35, 3818 *C.* 1902 [2] 1459).
- 6) Semicarbazonoxyypinen. Sm. 180° (*B.* 35, 2996 *C.* 1902 [2] 1048).
- 7)  $\alpha$ -Ureidocampheroxim. Sm. 203—204° (*Soc.* 81, 553 *C.* 1902 [1] 1058, 1334).
- $C_{11}H_{19}O_3Cl$  3) Mentylester d. Chlorameisensäure. Sd. 105—106°<sub>12</sub> (*C.* 1901 [1] 428).
- $C_{11}H_{19}O_3N_3$  \*5) Isothujaketonsäuresemicarbazon. Sm. 188—189° (*A.* 323, 337 *C.* 1902 [2] 1204).
- 10) Salvenketonsäureoxim. Sm. 204° (*B.* 35, 552 *C.* 1902 [1] 586).
- 11) Semicarbazon d. Ketolakton  $C_{10}H_{18}O_3$  (aus Thujamenthon). Sm. 179 bis 180° (*A.* 323, 361 *C.* 1902 [2] 1206).
- $C_{11}H_{19}O_4Br$  4) Diäthylester d.  $\gamma$ -Brom- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure (D. d. Bromtrimethylbernsteinsäure). Sd. 160—170°<sub>20</sub> (*Soc.* 81, 53 *C.* 1902 [1] 180, 409).
- 5) Diäthylester d.  $\delta$ -Brom- $\beta$ -Methylbutan- $\beta\delta$ -Dicarbonsäure. Sd. 165 bis 170°<sub>25</sub> (*C.* 1901 [1] 221; *Soc.* 81, 252 *C.* 1902 [1] 810).
- 6) Diäthylester d.  $\gamma$ - oder  $\delta$ -Brom- $\beta$ -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Fl. (*Soc.* 81, 56 *C.* 1902 [1] 409).
- $C_{11}H_{19}O_5N$  4) Nitrat d. Isolaureonsäureäthylester. Sm. 79° (*Bl.* [3] 25, 807).
- $C_{11}H_{19}O_5N_3$  \*2)  $\beta$ -Antipepton. Ba, Zn (*H.* 35, 171 *C.* 1902 [1] 1237).
- $C_{11}H_{19}NS$  1) Menthylenföhl. Sd. 138°<sub>12</sub> (*B.* 35, 832 *C.* 1902 [1] 713).
- $C_{11}H_{19}N_3S$  1)  $\delta$ -Thiosemicarbazon- $\beta\zeta$ -Dimethyl- $\beta\zeta$ -Oktadien (Citralthiosemicarbazon). Sm. 107—108° (*B.* 35, 2603 *C.* 1902 [2] 572).
- $C_{11}H_{20}ON_2$  16) Harnstoff (aus d. Base  $C_{10}H_{18}N$  aus Pinolonoxim). Sm. 186° (*B.* 28, 2711). — \*I, 730.
- $C_{11}H_{20}O_2N_4$  C 55,0 — H 8,3 — O 13,3 — N 23,3 — M. G. 240.
- 1)  $\beta\beta$ -Di[Isopropylidenureido]propan  $+ 3H_2O$  (Triacetondiharnstoff). Sm. 265—268° (wasserfrei) (*B.* 34, 2185).
- $C_{11}H_{20}O_4N_6$  C 44,0 — H 6,7 — O 33,3 — N 16,0 — M. G. 300.
- 1) Aethylester d.  $\beta\delta$ -Disemicarbazonpentan- $\gamma$ -Methylcarbonsäure. Sm. 224—225° (*Bl.* [3] 25, 647).
- $C_{11}H_{20}O_4S$  1)  $\beta$ -Isoamylsulfon- $\beta$ -Penten- $\gamma$ -Carbonsäure ( $\alpha$ -Aethyl- $\beta$ -Isoamylsulfon-isocrotonsäure). Fl. (*B.* 34, 2667).
- $C_{11}H_{20}O_6N_2$  C 50,8 — H 7,7 — O 30,7 — N 10,8 — M. G. 260.
- 1) Aethylester d. Carboxäthylalanylalanin. Sm. 70° (*B.* 35, 1103 *C.* 1902 [1] 910).
- $C_{11}H_{20}O_6N_3$  C 47,8 — H 7,2 — O 34,8 — N 10,1 — M. G. 276.

- $C_{11}H_{20}O_8N_2$  1) Aethylester d. Diurethanbrenztraubensäure. Sm. 109° (*C. r.* 133, 537).
- $C_{11}H_{20}NJ$  1) Jodmethylat d. Anhydrolupinin. Sm. 180° u. Zers. (*B.* 35, 1917 *C.* 1902 [2] 132).
- $C_{11}H_{21}ON$  \*5) Amid d.  $\alpha$ -Deken- $\alpha$ -Carbonsäure. Sm. 87° (*B.* 33, 3581; *M.* 22, 419).
- $C_{11}H_{21}ON_3$  \*13) Methyllupinin. Sd. 145—146°<sub>15</sub> (*B.* 35, 1921 *C.* 1902 [2] 133).
- \*13) Semicarbazon d. Thujamenthon. Sm. 179° (*A.* 323, 353 *C.* 1902 [2] 1205).
- 14) 4-Semicarbazon-3-Isobutyl-1-Methyl-R-Pentamethylen. Sm. 163 bis 164° (*A.* 317, 88).
- $C_{11}H_{21}OCl$  1) Chlormethyläther d. 1-Menthol. Sd. 230° u. Zers. (*B.* 34, 814).
- 2) Chlormethyläther d. Menthol. Sd. 160—163°<sub>13—15</sub> (*C.* 1901 [1] 806).
- 3) Chlorid d.  $\beta\eta$ -Dimethyloktan- $\delta$ -Carbonsäure. Sd. 100—102°<sub>15</sub> (*A.* 318, 156).
- 4) Chlorid d.  $\beta\gamma\zeta$ -Trimethylheptan- $\delta$ -Carbonsäure. Sd. 99°<sub>13</sub> (*A.* 318, 155).
- $C_{11}H_{21}O_2Br$  \*1)  $\epsilon$ -Bromdekan- $\alpha$ -Carbonsäure. Sm. 35° (*B.* 23, 2357; *Soc.* 79, 1195).
- \*2)  $\kappa$ -Bromdekan- $\alpha$ -Carbonsäure. Sm. 51° (*Soc.* 79, 1193).
- $C_{11}H_{21}O_3N_3$  \*3)  $\epsilon$ -Semicarbazon- $\beta$ -Isopropylhexan- $\alpha$ -Carbonsäure. Sm. 151—152° (*A.* 323, 329 *C.* 1902 [2] 1111).
- \*5) Semicarbazon d. Thujamenthoketonsäure. Sm. 174—175° (*A.* 323, 357 *C.* 1902 [2] 1206).
- $C_{11}H_{21}O_4N$  2) Aethylhydroxyd d. 1-Ecgonin +  $H_2O$ . Sm. 202° u. Zers. Jodid (*J. pr.* [2] 65, 95 *C.* 1902 [1] 595).
- $C_{11}H_{21}O_{16}N_9$  C 24,7 — H 3,9 — 47,8 — N 23,5 — M. G. 535.
- 1) Verbindung (aus Guanidin und Glyoxylsäure). Sm. 125° u. Zers. (*B.* 35, 3606 *C.* 1902 [2] 1412).
- $C_{11}H_{21}N_3S$  2) Thiosemicarbazon d. Citronellal. Sm. 54—55° (*B.* 35, 2053 *C.* 1902 [2] 105).
- 3) Thiosemicarbazon d. Menthon. Sm. 155—157° (*B.* 35, 2053 *C.* 1902 [2] 105).
- $C_{11}H_{22}ON_2$  9) 2-Methyl-4-Isopropylhexahydrophenylharnstoff. Sm. 155° (*G.* 31 [2] 287).
- 10) Thujamenthylharnstoff. Sm. 205—206° (*A.* 323, 355 *C.* 1902 [2] 1205).
- 11) 3-Acetyl-amido-1,2,2,5,5-Pentamethyltetrahydropyrrol. Sm. 87°; Sd. 145—146°<sub>11</sub> (*A.* 322, 110 *C.* 1902 [2] 126).
- $C_{11}H_{22}O_2N_2$  4)  $\alpha$ -sec. Oktylhydrazonpropionsäure. Sm. 39° (*J. pr.* [2] 64, 118).
- $C_{11}H_{22}O_2N_6$  C 48,9 — H 8,2 — O 11,8 — N 31,1 — M. G. 270.
- 1)  $\alpha\eta\gamma$ -Disemicarbazon- $\gamma$ -Methyloktan. Sm. 244—245° (*B.* 34, 2989).
- $C_{11}H_{22}O_3S$  1)  $\beta$ -Amylsulfon- $\delta$ -Keto- $\beta$ -Methylpentan. Sm. 71° (*B.* 35, 808 *C.* 1902 [1] 755).
- $C_{11}H_{23}ON$  \*3)  $\beta$ -Oximidoundekan. Sm. 46—47° (*C.* 1901 [1] 524; *Bl.* [3] 25, 269).
- 9)  $\alpha$ -Acetylamidononan. Sm. 34—35° (*C.* 1901 [1] 524).
- 10) cis-3-Oxy-2-Amidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Krystalle. Sd. 165—170°<sub>30</sub> (*C.* 1901 [1] 1025).
- 11) trans-3-Oxy-2-Amidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd. 163°<sub>30</sub> (*C.* 1901 [1] 1025).
- 12) Amid d. Dekan- $\alpha$ -Carbonsäure. Sm. 103° (EHESTÄDT, Dissertat. Freiburg i. B. 1886). — \*I, 705.
- 13) Amid d.  $\beta\eta$ -Dimethyloktan- $\delta$ -Carbonsäure. Sm. 84—85° (*A.* 318, 156).
- 14) Amid d.  $\beta\gamma\zeta$ -Trimethylheptan- $\delta$ -Carbonsäure. Sm. 82—83° (*A.* 318, 155).
- $C_{11}H_{23}ON_3$  C 62,0 — H 10,8 — O 7,5 — N 19,7 — M. G. 213.
- 1)  $\zeta$ -Semicarbazon- $\beta$ -Methylnonan. Sm. 102° (*C. r.* 133, 1218 *C.* 1902 [1] 299).
- $C_{11}H_{23}O_2N$  4) Methyl ester d.  $\zeta$ -Amido- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäure. Sd. 133—134°<sub>15</sub> (*A.* 323, 326 *C.* 1902 [2] 1111).
- $C_{11}H_{24}NJ$  4) Jodmethylat d. Base  $C_{10}H_{21}N$ . Sm. 231° (*A.* 319, 87).
- 5) Jodmethylat d. isom. Base  $C_{10}H_{21}N$ . Sm. 201° (217°) (*A.* 319, 87).
- $C_{11}H_{25}O_2N$  C 65,0 — H 11,3 — O 15,8 — N 6,9 — M. G. 203.
- 1) Heptyldi[ $\beta$ -Oxyäthyl]amin. Sd. 310—320° (*A.* 315, 131).



- $C_{11}H_9O_3NCl_2$  1) Pyridyloxydichlorbenzochinon (*C. r.* 133, 162; *C. r.* 133, 939 *C.* 1902 [1] 207).
- $C_{11}H_9O_3NBr_2$  1) Pyridyloxydibrombenzochinon (*C. r.* 133, 164).
- $C_{11}H_9O_3N_2Br_2$  1) 4,5-Dibrom-3-Keto-2-Benzoyl-2,3-Dihydro-1,2-Diazin. Zers. bei 187° (*B.* 34, 1015).
- 2) 5,β-Dibrom-2-Phenyl-1,3-Diazin-4-Carbonsäure. Sm. 148° (*B.* 35, 3167 *C.* 1902 [2] 1216).
- $C_{11}H_9O_4NCl$  5) Pyridylchlordioxy-1,4-Benzochinon. Na, K (*C. r.* 133, 233).
- $C_{11}H_9O_3N_2Cl$  1) 5-Chlor-2-Phenyl-1,3-Diazin-4-Carbonsäure. Sm. 164°. Ba, Benzamidinsalz (*B.* 35, 3168 *C.* 1902 [2] 1216).
- $C_{11}H_9O_3N_2Br$  1) 5-Brom-2-Phenyl-1,3-Diazin-4-Carbonsäure. Sm. 159°. Ba, Benzamidinsalz (*B.* 35, 3165 *C.* 1902 [2] 1216).
- $C_{11}H_7O_3NCl_2$  1) Pyridyldichlor-1,2,4-Trioxybenzol.  $H_2SO_4$  (*C. r.* 133, 634).
- $C_{11}H_7O_4N_2Cl$  1) 6-Chlor-5-Methyl-1,4-Benzdiazin-2,3-Dicarbonsäure. Sm. 201 bis 203° (*M.* 22, 478).
- $C_{11}H_7O_6N_3Cl$  1) 2,4,6-Trinitrochlorphenylat d. Pyridin. Sm. 115° (*A.* 323, 263 *C.* 1902 [2] 778).
- $C_{11}H_9ONCl$  4) Amid d. 3-Chlornaphtalin-2-Carbonsäure. Sm. 236—237° (*B.* 34, 4161 *C.* 1902 [1] 317).
- $C_{11}H_9ON_2Cl_2$  2) Chlorid d. 5-Chlor-3-Methyl-1-Phenylpyrazol-4-Carbonsäure. Sm. 85° (*B.* 34, 1304).
- $C_{11}H_9ON_3Cl$  1) 2-Chlor-6-Amido-8-Keto-9-Phenylpurin. Zers. bei 345° (*B.* 34, 117).
- 2) 6-Chlor-2-Amido-8-Keto-9-Phenylpurin. Zers. bei 350° (*B.* 34, 117).
- $C_{11}H_9O_3NCl$  9) Methylester d. α-Cyan-β-[4-Chlorphenyl]akrylsäure. Sm. 121° (*J. pr.* [2] 65, 286 *C.* 1902 [1] 1216).
- $C_{11}H_9O_3NBr$  \*1) Phenylimid d. Bromcitrakonsäure. Sm. 144,5—145,5° (*B.* 35, 1626 *C.* 1902 [1] 1273).
- $C_{11}H_9O_3N_4S$  1) 8-Merkapto-2,6-Diketo-9-Methylpurin (9-Phenylthioharnsäure) (*C.* 1901 [1] 1220).
- $C_{11}H_9O_3NBr$  4) Phenylimid d. α-Bromoxalpropionsäure. Sm. 134° (*B.* 35, 1629 *C.* 1902 [1] 1274).
- $C_{11}H_9O_3N_2Br_2$  1) αβ-Dibrom-γ-Benzoylhydrazoncrotonsäure (Mucobromsäurebenzoylhydrazon). Zers. 140—141° (*B.* 34, 1015).
- $C_{11}H_9O_4N_3Cl$  \*1) 2,4-Dinitrochlorphenylat d. Pyridin. 2 +  $PtCl_4$  (*B.* 34, 3022).
- $C_{11}H_9NBrS$  1) 2-[4-Bromphenylimido]methylthiophen. Sm. 90° (*B.* 34, 844).
- $C_{11}H_9ONS$  \*2) Phenylamid d. Thiophen-2-Carbonsäure. Sm. 140° (*J. pr.* [2] 65, 15 *C.* 1902 [1] 459).
- $C_{11}H_9O_2NBr_2$  3) Phenylimid d. Citradibrombrenzweinsäure. Sm. 126—127° (*B.* 35, 1626 *C.* 1902 [1] 1273).
- $C_{11}H_9O_3N_2Cl$  2) 5-Chlor-3-Methyl-1-Phenylpyrazol-4-Carbonsäure. Sm. 228 bis 229° (*B.* 34, 1303).
- $C_{11}H_9O_4NS$  2) γ-Methylenamidonaphtolsulfonsäure (*D.R.P.* 135335 *C.* 1902 [2] 1167).
- $C_{11}H_9O_4N_4Cl$  2) 5-Chlor-3,4-Dimethyl-1-[p-Dinitrophenyl]pyrazol. Sm. 121° (*B.* 34, 1302).
- $C_{11}H_{10}ON_2S$  5) s-Phenyl-2-Thienylharnstoff. Sm. 215° u. Zers. (*J. pr.* [2] 65, 16 *C.* 1902 [1] 459).
- $C_{11}H_{10}ON_3Cl$  1) Amid d. 5-Chlor-3-Methyl-1-Phenylpyrazol-4-Carbonsäure. Sm. 183° (*B.* 34, 1304).
- $C_{11}H_{10}O_2NCl$  5) Chinolinbetaïnachlorid. Sm. 215°. +  $AuCl_3$  (*Ar.* 240, 519 *C.* 1902 [2] 1326).
- 6) Isochinolinbetaïnachlorid +  $H_2O$ . Sm. 203° (wasserfrei). 2 +  $PtCl_4$ , +  $AuCl_3$  (*Ar.* 240, 507 *C.* 1902 [2] 1326).
- 7) Verbindung (aus 1,4-Benzochinon u. Pyridinchlorhydrat). Sm. 223 bis 225° (*G.* 31 [2] 264).
- $C_{11}H_{10}O_2NBr$  3) Verbindung (aus 1,4-Benzochinon u. Pyridinbromhydrat). Sm. 230° (*G.* 31 [2] 265).
- $C_{11}H_{10}O_2NJ$  6) Verbindung +  $H_2O$  (aus 1,2-Benzochinon u. Pyridinjodhydrat). Sm. 243—245° (wasserfrei) (*G.* 32 [1] 449 *C.* 1902 [2] 269).
- 7) Verbindung (aus 1,4-Benzochinon u. Pyridinjodhydrat). Sm. 254° (*G.* 31 [2] 261).

- $C_{11}H_{10}O_2N_2S$  3) 2-Acetylrimido-4-Keto-3-Phenyltetrahydrothiazol. Sm. 191 bis 192° (*Am.* 28, 143 *C.* 1902 [2] 793).
- $C_{11}H_{10}O_2N_3Cl$  2) 5-Chlor-3,4-Dimethyl-1-[4-Nitrophenyl]pyrazol. Sm. 140° (*B.* 34, 1302).
- $C_{11}H_{10}O_3NBr$  4) Methyl ester d. Phenylamidomukobromsäure. Sm. 117° (*B.* 34, 518).
- $C_{11}H_{10}O_3N_4S$  1) 5-β-Phenylthioureido]-2, 4, 6-Triketohexahydro-1, 3-Diazin (9-Phenylthiopseudoharnsäure) (*C.* 1901 [1] 1220).
- $C_{11}H_{10}O_4N_3Br$  1) β-Brom-γ-Semicarbazon-α-Oxyerotonphenyläthersäure (Mucophenoxybromsäuresemicarbazon). Zers. bei 195° (*B.* 34, 1013).
- $C_{11}H_{10}O_6NBr$  1) Diacetat d. 4- oder 6-Brom-6- oder 4-Nitro-2,5-Dioxy-1-Methylbenzol. Sm. 118° (*J. pr.* [2] 63, 187). — \*II, 579.
- $C_{11}H_{10}NCl_2J$  1) Jodmethylat d. 2-Dichlor-6-Methylchinolin (*J. pr.* [2] 66, 226 *C.* 1902 [2] 1131).
- $C_{11}H_{11}ONS_2$  1) 2-Thiocarbonyl-4-Keto-5, 5-Dimethyl-3-Phenyltetrahydrothiazol. Sm. 116° (*B.* 35, 3337 *C.* 1902 [2] 1364).
- $C_{11}H_{11}ON_3S$  2) 5-Acetylmethylamido-2-Phenyl-1, 3, 4-Thiodiazol. Sm. 195° (*Soc.* 79, 60).
- 3) 2-Acetylmethylamido-3-Methyl-5-Phenyl-2, 3-Dihydro-1, 3, 4-Thiodiazol. Sm. 144° (*Soc.* 79, 58).
- $C_{11}H_{11}O_2NS$  6) Äthylester d. Phenylrhodanessigsäure. Sd. 182—184°, (*Am.* 26, 352).
- $C_{11}H_{11}O_2N_3Br_2$  3) 3, 5-Dibrom-3, 5-Dicyan-2, 6-Diketo-4, 4-Diäthylhexahydropyridin. Sm. 182° u. Zers. (*C.* 1901 [1] 582).
- 4) 3, 5-Dibrom-3, 5-Dicyan-2, 6-Diketo-4-Äthyl-1, 4-Dimethylhexahydropyridin. Sm. 106—107, 5° (*C.* 1901 [1] 579).
- 5) Äthylimid d. αγ-Dibrom-αγ-Dicyan-ββ-Dimethylpropan-αγ-Dicarbonsäure. Sm. 130—132° (*C.* 1901 [1] 578).
- $C_{11}H_{11}O_2ClBr_2$  \*1) Acetat d. 3, 6-Dibrom-5-Oxy-2-Chlormethyl-1, 4-Dimethylbenzol (*B.* 33, 4287).
- 2) Acetat d. 3, 6-Dibrom-5-Oxy-1-Chlormethyl-2, 4-Dimethylbenzol. Sm. 94—95° (*B.* 35, 146 *C.* 1902 [1] 468).
- $C_{11}H_{11}O_2Br_2J$  3) Acetat d. 3, 6-Dibrom-5-Oxy-1-Jodmethyl-2, 4-Dimethylbenzol. Sm. 124—125° (*B.* 35, 145 *C.* 1902 [1] 467, 468).
- $C_{11}H_{11}O_3NS$  12) 1-Methylamidonaphtalin-4-Sulfonsäure (*C.* 1901 [2] 74).
- 13) 1-Methylamidonaphtalin-6-Sulfonsäure + H<sub>2</sub>O. Na + H<sub>2</sub>O (*B.* 35, 982 *C.* 1902 [1] 877).
- 14) 2-Methylamidonaphtalin-6-Sulfonsäure (*C.* 1901 [2] 74).
- 15) 2-Amido-1-Naphtylmethansulfonsäure (D.R.P. 117471 *C.* 1901 [1] 349; D.R.P. 132431 *C.* 1902 [2] 81; D.R.P. 134345 *C.* 1902 [2] 919).
- $C_{11}H_{11}O_3NS_2$  1) Benzoyldithiocarbaminsäuremethylacetat. Sm. 118° (*C.* 1901 [2] 276).
- $C_{11}H_{11}O_3N_2Br$  2) Äthyläther d. 2, 4-Diketo-1-[p-Brom-4-Oxyphenyl]tetrahydroimidazol. Sm. 230° (*J. pr.* [2] 66, 255 *C.* 1902 [2] 1125).
- $C_{11}H_{11}O_4NBr_3$  4) Acetat d. 4, 6-Dibrom-2-Oxy-5-Nitromethyl-1, 3-Dimethylbenzol. Sm. 141° (*B.* 34, 4273 *Ann.* *C.* 1902 [1] 308). — \*II, 457.
- 5) Acetat d. 3, 6-Dibrom-5-Oxy-2-Nitromethyl-1, 4-Dimethylbenzol. Sm. 155—156° (*B.* 34, 4268 *C.* 1902 [1] 307). — \*II, 453.
- $C_{11}H_{11}O_4N_2Cl$  2) 2-Chlor-3, 5-Di[Acetylamido]benzol-1-Carbonsäure. Sm. 288 bis 289° (*C.* 1902 [1] 1293).
- $C_{11}H_{11}O_5NBr_3$  1) 5-Nitrat-2-Acetat d. 4, 6-Dibrom-2-Oxy-5-Oxymethyl-1, 3-Dimethylbenzol. Sm. 153—154° (*B.* 34, 4273 *C.* 1902 [1] 308). — \*II, 692.
- 2) 2-Nitrat-5-Acetat d. 3, 6-Dibrom-5-Oxy-2-Oxymethyl-1, 4-Dimethylbenzol. Sm. 137—138° (*B.* 34, 4272 *C.* 1902 [1] 308). — \*II, 688.
- $C_{11}H_{11}N_3BrS$  1) 4-Brom-3-Thiocarbonyl-1, 5-Dimethyl-2-Phenyl-2, 3-Dihydropyrazol (Bromthiopyrin). Sm. 188° (*A.* 320, 24 *C.* 1902 [1] 665).
- $C_{11}H_9ONCl$  \*5) β-Oxychloräthylat d. Chinolin. Sm. 122° (*B.* 34, 1389).
- $C_{11}H_9ONJ$  6) β-Oxyjodäthylat d. Chinolin. Sm. 157° (*B.* 34, 1389).
- $C_{11}H_{12}ON_3S$  \*9) 2, 5-Dimethylphenylamid d. Rhodanessigsäure. Sm. 133° (*Am.* 28, 153 *C.* 1902 [2] 154).
- 11) 2-[Äthylphenylamido]-4-Keto-4, 5-Dihydrothiazol. Fl. (*C.* 1899 [2] 805). — \*II, 203.

- $C_{11}H_{12}ON_2S$  12) 2-[2,5-Dimethylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 161—162° (*Am.* 28, 156 *C.* 1902 [2] 794).
- 13) 2-[3,4-Dimethylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 179° (*Am.* 28, 153 *C.* 1902 [2] 794).
- 14) 2-Imido-4-Keto-3-[2,5-Dimethylphenyl]tetrahydrothiazol. Sm. 109—110° (*Am.* 28, 155 *C.* 1902 [2] 794).
- 15) 2-Imido-4-Keto-3-[3,4-Dimethylphenyl]tetrahydrothiazol. Sm. 111° (*Am.* 28, 153 *C.* 1902 [2] 794).
- 16) 2-Imido-4-Keto-3-[2-Methylphenyl]tetrahydro-1,3-Thiazin. Sm. 145°. HCl. — \*II, 255.
- 17) 2-Imido-4-Keto-3-[4-Methylphenyl]-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 153°. (2 HCl, PtCl<sub>4</sub>). — \*II, 274.
- $C_{11}H_{12}ON_4Br_2$  \*1) 5,6-Dibrom-2-Phenylhydrazido-4-Keto-6-Methyl-3,4,5,6-Tetrahydro-1,3-Diazin. Zers. bei 220—222° (*G.* 31 [1] 518).
- $C_{11}H_{12}O_2N_2S$  3) Äthyläther d. 2-[4-Oxyphenyl]imido-4-Ketotetrahydrothiazol. Sm. 163—164° (*Am.* 28, 157 *C.* 1902 [2] 794).
- 4) Äthyläther d. 2-Imido-4-Keto-3-[4-Oxyphenyl]tetrahydrothiazol. Sm. 128° (*Am.* 28, 156 *C.* 1902 [2] 156).
- $C_{11}H_{12}O_2N_2S_2$  1) 2,5-Anhydrid d. 5-Merkapto-2,3-Dimethyl-1-Phenylpyrazol-2-Sulfonsäure? Sm. 89—91° (*A.* 320, 12 *C.* 1902 [1] 664).
- $C_{11}H_{12}O_3N_2S$  4) 2,5-Anhydrid d. 3-Methyl-1-Phenylpyrazol-5-Sulfonsäure-2-Methylhydroxyd + H<sub>2</sub>O (Thiopyrintrioxyd). Zers. bei 288—290° (*A.* 320, 18 *C.* 1902 [1] 665).
- $C_{11}H_{12}O_3N_2Se$  1) 2,5-Anhydrid d. 3-Methyl-1-Phenylpyrazol-5-Selensäure-2-Methyloxydhydrat + H<sub>2</sub>O (Selenopyrintrioxyd). Zers. bei 170° (*A.* 320, 38 *C.* 1902 [1] 666).
- $C_{11}H_{12}O_4NCl$  2) 1-Äthylester d. 6-Chlorbenzol-1-Carbonsäure-2-Amidoessigsäure (D.R.P. 135 638 *C.* 1902 [2] 1235).
- $C_{11}H_{12}O_4NBr$  3) Dimethylester d. 4-Bromphenylamidomalonsäure. Sm. 84° (*B.* 35, 521 *C.* 1902 [1] 658).
- $C_{11}H_{12}O_6N_3Cl$  1) 5-Chlor-2,4,6-Trinitro-3-Pseudobutyl-1-Methylbenzol. Sm. 82° (D.R.P. 86447). — \*II, 63.
- $C_{11}H_{12}O_6N_3Br$  1) 5-Brom-2,4,6-Trinitro-3-Pseudobutyl-1-Methylbenzol. Sm. 129° (D.R.P. 86447). — \*II, 64.
- $C_{11}H_{12}O_6N_3J$  1) 5-Jod-2,4,6-Trinitro-3-Pseudobutyl-1-Methylbenzol. Sm. 152° (D.R.P. 86447). — \*II, 64.
- $C_{11}H_{12}NJS$  1) 2-Jodmethylat d. 2-Thiocarbonyl-1-Methyl-1,2-Dihydrochinolin. Sm. 189° (*B.* 35, 3677 *C.* 1902 [2] 1474).
- $C_{11}H_{12}N_2Cl_2S$  1) Thiopyrindichlorid (*A.* 320, 22 *C.* 1902 [1] 665).
- $C_{11}H_{12}N_2Cl_2Se$  1) Selenopyrindichlorid. 2 + PtCl<sub>4</sub> + 2H<sub>2</sub>O (*A.* 320, 40 *C.* 1902 [1] 667).
- $C_{11}H_{12}N_2Br_2S$  1) Thiopyrindibromid. Sm. 154° (*A.* 320, 23 *C.* 1902 [1] 665).
- $C_{11}H_{12}N_2Br_2Se$  1) Selenopyrindibromid. Sm. 236° (*A.* 320, 42 *C.* 1902 [1] 667).
- $C_{11}H_{12}N_2Br_4Se$  1) Selenopyrintetrabromid. Sm. 139° (*A.* 320, 42 *C.* 1902 [1] 667).
- $C_{11}H_{12}N_2J_2Se$  1) Selenopyrindijodid. Sm. 144° (*A.* 320, 43 *C.* 1902 [1] 667).
- $C_{11}H_{13}ON_2S_2$  1) Methyläthyläther d. Benzoylimidodimerkaptomethan. Sd. 224°<sub>20</sub> (*Am.* 26, 193).
- 2) Propylester d. Benzoylamidodithioameisensäure. Sm. 77° (*C.* 1901 [2] 276).
- 3) Isopropylester d. Benzoylamidodithioameisensäure. Sm. 74—75° (*C.* 1902 [2] 790).
- 4)  $\alpha$ -Phenyläthylester d. Acetylamidodithioameisensäure. Sm. 99 bis 100° (*C.* 1902 [2] 790).
- $C_{11}H_{13}O_2NS_2$  2) Äthylester d. Phenylamidodithioformylmerkaptomeisensäure. Sm. 63° (*B.* 35, 3386 *C.* 1902 [2] 1364).
- $C_{11}H_{13}O_2N_2Cl$  \*5) 5-Chlor-2,4-Di[Acetylamido]-1-Methylbenzol. Sm. oberh. 260° (*Soc.* 81, 95 *C.* 1902 [1] 416).
- 6) 2-Chlor-2,5-Di[Acetylamido]-1-Methylbenzol. Sm. oberh. 300° (*B.* 34, 1653).
- 7) Äthylester d.  $\alpha$ -Chlor- $\alpha$ -[2-Methylphenyl]hydrazonessigsäure. Sm. 74—75° (*C. r.* 134, 1313 *C.* 1902 [2] 187).
- 8) Äthylester d.  $\alpha$ -Chlor- $\alpha$ -[4-Methylphenyl]hydrazonessigsäure. Sm. 103—104° (*C. r.* 134, 1313 *C.* 1902 [2] 187).

- $C_{11}H_{13}O_3NS$  8) Phenylamid d. Carboxäthylthioglykolsäure. Sm. 99° (*J. pr.* [2] 66, 188 *C. 1902* [2] 933).
- $C_{11}H_{13}O_3N_2Cl$  1) Aethylester d. 2-Chlorphenylamidoacetylamidoameisensäure. Sm. 115° (*J. pr.* [2] 66, 259 *C. 1902* [2] 1125).
- $C_{11}H_{13}O_4N_2Cl$  2)  $\alpha$ -Chlorid d.  $\alpha$ -[4-Methylphenyl]hydrazin- $\alpha$ - $\beta$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 94° (*C. 1901* [1] 936; *B. 34*, 2338).
- $C_{11}H_{13}O_4N_2Br$  1)  $\alpha$ -Chlorid d.  $\alpha$ -[4-Methoxyphenyl]hydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 124° (*B. 34*, 2322).
- $C_{11}H_{13}O_4N_2Br$  2) 6-Brom-2-Dinitro-3-Pseudobutyl-1-Methylbenzol. Sm. 107—108° (*B. 27*, 1622). — \*II, 64.
- $C_{11}H_{13}N_2ClS$  1)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -[2-Methylphenyl]thioharnstoff. Sm. 84—85° (*Soc. 79*, 558).
- $C_{11}H_{13}N_2ClS$  2)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -[4-Methylphenyl]thioharnstoff. Sm. 127—128° (*Soc. 79*, 558).
- $C_{11}H_{13}N_2JS$  3)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -Benzylthioharnstoff. Sm. 69° (*Soc. 79*, 559).
- $C_{11}H_{14}ONCl$  2) Methyläther d. 5-Merkapto-1-Phenylpyrazol-2-Jodmethylat. Sm. 156° (*A. 320*, 30 *C. 1902* [1] 666).
- $C_{11}H_{14}O_2NCl$  10) 2,4,5-Trimethylphenylamid d. Chloressigsäure. Sm. 158,5° (*Am. 27*, 13 *C. 1902* [1] 477).
- $C_{11}H_{14}O_2NCl$  5) Nitrosochlorid d.  $\alpha$ -[4-Aethoxyphenyl]propen. Sm. 115,5° (*B. 35*, 2265 *C. 1902* [2] 276).
- $C_{11}H_{14}O_2NCl$  6) Chlormethylat d. Trimethylechinolid.  $2 + PtCl_4$  (*A. 322*, 368 *C. 1902* [2] 736).
- $C_{11}H_{14}O_2NJ$  1) Jodmethylat d. Trimethylechinolid +  $H_2O$ . Sm. 116—120° (*A. 322*, 368 *C. 1902* [2] 736).
- $C_{11}H_{14}O_2N_2Br_2$  \*1) Dibrompilocarpin. Sm. 95°. ( $HBr$ ,  $Br_2$ ) (*Soc. 79*, 597; *B. 35*, 203 *C. 1902* [1] 433).
- $C_{11}H_{14}O_2N_2Br_2$  2) Dibromisopilocarpin. Sm. 135° (133°) (*Soc. 79*, 586; *B. 35*, 203 *C. 1902* [1] 433).
- $C_{11}H_{14}O_2N_2Br_4$  1) Dibromisopilocarpindibromid.  $HBr$  (*Soc. 79*, 585).
- $C_{11}H_{14}O_3N_2S$  9) 2,5-Dimethylphenylthiohydantoinsäure. Zers. bei 200° (*Am. 28*, 155 *C. 1902* [2] 794).
- $C_{11}H_{14}O_3N_2S$  10) 3,4-Dimethylphenylthiohydantoinsäure. Sm. 208° u. Zers. (*Am. 28*, 153 *C. 1902* [2] 794).
- $C_{11}H_{14}O_3N_2S$  11) Aethylester d.  $\beta$ -Phenylthioureidoessigsäure. Sm. 85° (*B. 34*, 439).
- $C_{11}H_{14}O_3N_2S$  12) Phenylamid d.  $\alpha$ -Carbaminmerkaptobuttersäure. Sm. 120° (*J. pr.* [2] 66, 191 *C. 1902* [2] 933).
- $C_{11}H_{14}O_3N_2S$  1)  $\beta$ -[2-Nitro-4-Methylphenyl]- $\alpha$ -Allylthioharnstoff. Sm. 168—170° (*Soc. 79*, 1144).
- $C_{11}H_{14}O_3N_2S$  1)  $\beta$ -Dibrom- $\alpha$ -[2,4-Dimethylphenyl]sulfonpropan. Sm. 56—57° (*J. pr.* [2] 66, 152 *C. 1902* [2] 797).
- $C_{11}H_{14}O_3NCl$  1) 4-[ $\beta$ -Chloräthoxyl]phenylamid d.  $\alpha$ -Oxypropionsäure. Sm. 112 bis 113° (*D.R.P.* 90412). — \*II, 408.
- $C_{11}H_{14}O_3NBr$  1) 4-[ $\beta$ -Bromäthoxyl]phenylamid d.  $\alpha$ -Oxypropionsäure. Sm. 114 bis 115° (*D.R.P.* 90412). — \*II, 408.
- $C_{11}H_{14}O_3N_2S$  1) 4-Aethoxyphenylthiohydantoinsäure. Zers. bei 212° (*Am. 28*, 157 *C. 1902* [2] 794).
- $C_{11}H_{14}O_3N_2S$  2) Aethylester d.  $\beta$ -[2-Tiänyl]hydrazonbuttersäure. Sm. 112° (*J. pr.* [2] 65, 10 *C. 1902* [1] 458).
- $C_{11}H_{14}O_4N_2Br_2$  1) Dibromisopilocarpinsäure. Sm. 235° (224° u. Zers.) (*Soc. 79*, 590; *B. 35*, 206 *C. 1902* [1] 433).
- $C_{11}H_{14}O_4N_2S$  3) Cytisinschwefelsäure +  $2H_2O$  (*B. 34*, 608).
- $C_{11}H_{15}ONS$  7) Phenylamid d.  $\alpha$ -Merkaptopropionäthyläthersäure. Sm. 97° (*J. pr.* [2] 66, 191 *C. 1902* [2] 933).
- $C_{11}H_{15}O_2NJ_2$  1) Jodmethylat d. 4-Jod-2,6-Dimethylpyridin-3-Carbonsäure. Sm. 194° (*B. 35*, 3157 *C. 1902* [2] 1214).
- $C_{11}H_{15}O_2N_2Br$  1) Bromisopilocarpin. Sm. 164° (*Soc. 79*, 583).
- $C_{11}H_{15}O_2Cl_2P$  1) Dichlorid d. Phosphinsäure  $C_{11}H_{17}O_4P$ . Sm. 51°; Sd. 175—185° (*B. 34*, 1299).
- $C_{11}H_{15}O_2SAs$  1) Diäthylphenylarsensulfid-4-Carbonsäure. Sm. 184° (*A. 320*, 308 *C. 1902* [1] 921).
- $C_{11}H_{15}O_3NBr_2$  1) Dibrommezealin.  $HCl$ , ( $2HCl$ ,  $PtCl_4$ ), ( $HCl$ ,  $AuCl_3$ ),  $H_2SO_4$  +  $2\frac{1}{2}H_2O$  (*B. 34*, 3012).
- $C_{11}H_{15}O_3NS$  3) 4-[4-Methylphenyl]sulfonmorpholin. Sm. 147° (*B. 34*, 2907).

- $C_{11}H_{15}O_4N_2Br$  4) Bromisopilocarpinsäure. Fl. Ag (*Soc.* 79, 593).  
 $C_{11}H_{15}O_6NS_2$  1)  $\alpha\alpha$ -Di[Aethylsulfon]- $\alpha$ -[2-Nitrophenyl]methan. Sm. 138° (*B.* 35, 2347 *C.* 1902 [2] 516).  
 2)  $\alpha\alpha$ -Di[Aethylsulfon]- $\alpha$ -[3-Nitrophenyl]methan. Sm. 164° (*B.* 35, 2347 *C.* 1902 [2] 516).  
 3)  $\alpha\alpha$ -Di[Aethylsulfon]- $\alpha$ -[4-Nitrophenyl]methan. Sm. 172° (*B.* 35, 2348 *C.* 1902 [2] 516).  
 $C_{11}H_{16}ONJ$  5) Jodmethylat d. Methyl-3-Dimethylamidophenylketon. Sm. 200 bis 201° (*B.* 34, 3524).  
 $C_{11}H_{16}ON_2S$  3)  $\alpha$ -[ $\beta$ -Oxybutyl]- $\beta$ -Phenylthioharnstoff. Sm. 102° (*C.* 1902 [1] 716).  
 $C_{11}H_{16}O_2NJ$  4) Isobutyläther d. 4-Oxyphenylharnstoff. Sm. 158° (*B.* 34, 1946).  
 1) Methyl ester d. Dimethylphenyljodammoniumessigsäure. Zers. bei 104—105° (*B.* 35, 770 *C.* 1902 [1] 720).  
 $C_{11}H_{16}O_3N_2Br_2$  1) Dibromisopilocarpinsäure. Sm. 120°. Ba (*B.* 35, 2458 *C.* 1902 [2] 527).  
 $C_{11}H_{17}O_2NS$  22) Äthylpropylamid d. Benzolsulfonsäure (*J. pr.* [2] 63, 211). — \*II, 69.  
 23) Phenylamid d.  $\beta$ -Methylbutan- $\delta$ -Sulfonsäure. Sm. 42° (*R.* 21, 82 *C.* 1902 [1] 855).  
 $C_{11}H_{17}O_3NS$  7) 2-Diäthylamido-1-Methylbenzol-4-Sulfonsäure +  $H_2O$ . K (*C.* 1902 [2] 378).  
 $C_{11}H_{18}ONJ$  3) 4-Äthyläther d. Trimethyl-4-Oxyphenylammoniumjodid. Zers. bei 230—235° (*A.* 293, 34). — \*II, 399.  
 $C_{11}H_{18}O_3NCl$  1) Äthylester d. 3-Chloracetylamidohexahydrobenzol-1-Carbonsäure. Sm. 115° (*A.* 319, 331 *C.* 1902 [1] 350).  
 $C_{11}H_{18}O_3N_2Br$  1) Harnstoffderivat d. Verb.  $C_{10}H_{17}O_2N_2Br$ . Sm. 139° u. Zers. (*Soc.* 79, 656).  
 $C_{11}H_{19}ONS$  1) Amid d. d-Bornylxanthogensäure. Sm. 125—126° (*B.* 35, 2477 *C.* 1902 [2] 442).  
 2) Amid d. l-Bornylxanthogensäure. Sm. 125—126° (*B.* 35, 2477 *C.* 1902 [2] 442).  
 3) Amid d. r-Bornylxanthogensäure. Sm. 134,5—135,5° (*B.* 35, 2478 *C.* 1902 [2] 442).  
 4) Amid d. l-Fenchylxanthogensäure. Sm. 129—130° (*B.* 35, 2479 *C.* 1902 [2] 442).  
 5) Amid d.  $\alpha$ -Dihydrocarvylxanthogensäure. Sm. 62,5—63,5° (*B.* 35, 2480 *C.* 1902 [2] 442).  
 $C_{11}H_{20}O_3NJ$  2) Jodmethylat d. r-Ecgoninmethylester. Sm. 182° (*B.* 34, 1461).  
 3) Jodäthylat d. l-Ecgonin +  $2H_2O$ . Sm. 192° (185°) (*J. pr.* [2] 65, 94 *C.* 1902 [1] 595).  
 $C_{11}H_{20}O_4NJ$  4) Jodmethylat d. 1-Methylhexahydropyridin-2,6-Dicarbonsäure-dimethylester. Sm. 167—168° (*B.* 35, 2072 *C.* 1902 [2] 218).  
 $C_{11}H_{20}O_6NCl$  1) Piperidid d. Chlorgalaktonsäure. + Piperidin (*B.* 35, 947 *C.* 1902 [1] 859).  
 $C_{11}H_{21}ONS$  1) Amid d. l-Menthylxanthogensäure. Sm. 144—145° (*B.* 35, 2476 *C.* 1902 [2] 442).  
 $C_{11}H_{22}O_6N_2S_2$  1)  $\beta\beta$ -Di[ $\beta$ -Acetylamidoäthylsulfon]propan (Diacetyldiamidosulfonal). Sm. 165° (*B.* 35, 1374 *C.* 1902 [1] 1089).

- $C_{11}H_{10}O_6NClS$  1) Pyridylchlor-1,2,4-Trioxylbenzol- $\beta$ -Sulfonsäure (*C. r.* 133, 633).  
 $C_{11}H_{11}ONBr_2S$  1) Methyläther d. 3,6-Dibrom-5-Oxy-2-Rhodanmethyl-1,4-Dimethylbenzol. Sm. 107—108° (*B.* 34, 4278 *C.* 1902 [1] 309). — \*II, 691.  
 $C_{11}H_{11}NClJS$  1) 2-Jodmethylat d. 6-Chlor-2-Thiocarbonyl-1-Methyl-1,2-Dihydrochinolin. Zers. bei 190° (*B.* 35, 3683 *C.* 1902 [2] 1475).  
 $C_{11}H_{11}N_2ClBrJ$  2) 2-Jodmethylat d. 5-Chlor-4-Brom-3-Methyl-1-Phenylpyrazol. Sm. 230° (*A.* 320, 24 *C.* 1902 [1] 665).  
 $C_{11}H_{12}N_2ClBrS$  1) 5-Chlor-2-Benzylamido-5-Brommethyl-4,5-Dihydrothiazol $\beta$ . Sm. 107—108° (*Soc.* 79, 562).  
 $C_{11}H_{13}ON_2ClS$  1) Thiopyrinchloroxydhydrat (*A.* 320, 22 *C.* 1902 [1] 665).  
 $C_{11}H_{13}ON_2BrS$  1) Thiopyrinbromoxydhydrat (*A.* 320, 23 *C.* 1902 [1] 665).



- $C_{11}H_{13}O_2N_2ClS$  2)  $\alpha$ -Chloridd.  $\alpha$ -[4-Methylphenyl]hydrazin- $\alpha$ -Thiocarbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 109—110° (B. 34, 2330).  
 $C_{11}H_{15}O_2NClBr$  1) Brommethylat d. 4-Chlor-2,6-Dimethylpyridin-3-Carbonsäure. Sm. 198° (B. 35, 3157 C. 1902 [2] 1214).

**C<sub>12</sub>-Gruppe.**

- $C_{12}H_8$  \*1) Acenaphtylen (G. 31 [1] 8).  
 $C_{12}H_{10}$  \*1) Acenaphten (G. 31 [1] 7).  
 \*2) Biphenyl (C. 1902 [2] 1209).  
 $C_{12}H_{12}$  \*3) 1-Aethylnaphtalin (Bl. [3] 25, 494).  
 \*4) 2-Aethylnaphtalin (Bl. [3] 25, 494).  
 \*6) isom. Dimethylnaphtalin. Sd. 264°. Pikrat (B. 34, 3718 C. 1902 [1] 45).  
 11) isom. Dimethylnaphtalin. Sd. 256—258°. Pikrat (Sm. 134°) (Soc. 73, 218). — \*II, 107.  
 12) isom. Dimethylnaphtalin. Sm. — 20; Sd. 264°. Pikrat (Sm. 180°) (C. 1898 [1] 812). — \*II, 107.  
 $C_{12}H_{14}$  \*1) Tetrahydroacenaphten. Sd. 254° (C. 1901 [2] 202).  
 6)  $\alpha$ -Phenyl- $\gamma$ -Methyl- $\alpha$ - $\gamma$ -Pentadien. Sd. 132—133°<sub>21</sub> (B. 35, 2652 C. 1902 [2] 588).  
 $C_{12}H_{16}$  5) 1,2,3,4,5,6-Hexahydrobiphenyl (Phenylhexahydrobenzol). Sm. 7°; Sd. 239°<sub>745</sub> (A. 318, 312).  
 6)  $\alpha$ -[2,4-Dimethylphenyl]- $\alpha$ -Buten. Sd. 114°<sub>21</sub> (B. 35, 2257 C. 1902 [2] 274).  
 7)  $\alpha$ -[2,4,6-Trimethylphenyl]propen. Sd. 103°<sub>13</sub> (B. 35, 2256 C. 1902 [2] 274).  
 8) Dicyklodekatrien. Sd. 92—95°<sub>17</sub> (B. 35, 2135 C. 1902 [2] 186).  
 9) Kohlenwasserstoff (aus Chinit). Sd. 230—233°<sub>710</sub> (B. 34, 507).  
 $C_{12}H_{18}$  \*14) 1,3,5-Triäthylbenzol. (J. pr. [2] 65, 396 C. 1902 [1] 1324).  
 22) sec. Hexylbenzol ( $\beta$ -Phenylhexan). Sd. 208° (Bl. [3] 9, 688). — \*II, 22.  
 23) 1,2,4-Triäthylbenzol. Sd. 216—218° (J. pr. [2] 65, 398 C. 1902 [1] 1324).  
 $C_{12}H_{20}$  8) Kohlenwasserstoff (aus Schafgarbenöl). Sd. 210—220° (C. 1902 [2] 798).  
 $C_{12}H_{22}$  7) Dodekahydrobiphenyl (Dicyklohexyl). Sd. 234—236°<sub>752</sub> (C. 1902 [1] 1278).  
 $C_{12}H_{24}$  9)  $\beta$ - $\beta$ -Trimethyl- $\delta$ -Nonen. Sd. 74—76° (C. 1901 [2] 624).  
 1) 1,4-Isopropyl-3-Aethyl-1-Methylhexahydrobenzol (1-Aethylmenthan). Sd. 209—210°<sub>790</sub> (A. 318, 342; C. 1901 [2] 347).  
 10) Dodekanaphten. Sd. 216° (Am. 25, 264, 303).  
 $C_{12}Cl_{14}$  1) Verbindung (aus Naphtalin-1,8-Dicarbonsäureanhydrid). Sm. 135—136° (G. 32 [1] 50).

## — 12 II —

- $C_{12}H_8O_8$  C 52,2 — H 1,4 — O 46,4 — M. G. 276.  
 1) Anhydrid d. Furan-2,5-Dicarbonsäure (Am. 25, 454).  
 $C_{12}H_8O_9$  \*1) Thiophaninsäure. Sm. 264° (A. 319, 144).  
 $C_{12}H_8O_9$  \*1)  $\alpha$ -Naphtofuran. Sd. 282—284° (C. 1902 [1] 1356).  
 \*2)  $\beta$ -Naphtofuran. Sm. 60—61°; Sd. 284—286°. Pikrat (C. 1902 [1] 1356).  
 \*3) Biphenylenoxyd. Sm. 86—87°; Sd. 275,5—276° (B. 34, 1663; M. 22, 561).  
 $C_{12}H_8O_3$  \*5) 8-Aldehyd d. Naphtalin-1,8-Dicarbonsäure. Ag (M. 22, 986).  
 $C_{12}H_8O_4$  17) Isopyromucylbenzoat. Sm. 85° (Bl. [3] 27, 1511 C. 1902 [2] 344).  
 $C_{12}H_8O_5$  \*5) 3-Oxy-1,4-Naphtochinon-2-Methylcarbonsäure. Sm. 197°. Pb, Ag<sub>2</sub> (M. 22, 588; M. 23, 691 C. 1902 [2] 1119).  
 8) Verbindung (aus 1,2-Benzochinon). Zers. oberh. 170° (Am. 26, 24).  
 $C_{12}H_8O_6$  6) 7-Acetoxy-1,2-Benzopyron-4-Carbonsäure. Sm. 193° (B. 34, 383).  
 $C_{12}H_8O_7$  C 54,5 — H 3,0 — O 42,4 — M. G. 264.  
 1) Purpurogallincarbonsäure (C. 1902 [1] 1055).  
 2) 2,3- oder -3,4-Anhydrid d. 5-Acetoxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 152—153° u. Zers. Ag (B. 35, 2911 C. 1902 [2] 1042).  
 3) isom. 2,3- oder -3,4-Anhydrid d. 5-Acetoxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 140—144° (B. 35, 2914 C. 1902 [2] 1042).  
 $C_{12}H_8N_2$  \*1) 5,10-Naphtdiazin. Sm. 171—172°. + 2AgNO<sub>3</sub> (J. pr. [2] 64, 212; B. 34, 2447; J. pr. [2] 65, 134 C. 1902 [1] 995).

- $C_{12}H_8N_2$  \*6) Phenazon. Sm. 156° (*J. pr.* [2] 65, 296 *C.* 1902 [1] 1234).  
 7) 4,5-Naphtisodiazin (Isochino- $\beta$ -Pyridin). Sm. 113—114°; Sd. oberh. 360°.  $HCl + 2H_2O$ ,  $H_2Cr_2O_7$ , Pikrat (*B.* 35, 301 *C.* 1902 [1] 592).
- $C_{12}H_8S$  \*1) Biphenylensulfid (*B.* 34, 1665).
- $C_{12}H_8N$  \*1) Carbazol (*B.* 34, 3331).
- $C_{12}H_9N_3$  7) 1-[1-Naphtyl]-1, 3, 4-Triazol. Sm. 120°. (2  $HCl$ ,  $PtCl_4$ ), 2 +  $PtCl_4$ , Pikrat (*G.* 31 [2] 118).  
 8) 1-[2-Naphtyl]-1, 3, 4-Triazol. Sm. 160°. (2  $HCl$ ,  $PtCl_4$ ), 2 +  $PtCl_4$ , Pikrat (*G.* 31 [2] 120).  
 9) 4-Phenylimidobenzochinondiazid (*B.* 35, 895 *C.* 1902 [1] 867).
- $C_{12}H_{10}O$  \*1) 2-Oxybiphenyl. Sm. 56°; Sd. 275° (*M.* 22, 566).  
 \*2) 4-Oxybiphenyl. Sm. 164—165° (*J. pr.* [2] 63, 453).  
 \*3) Diphenyläther. 2 +  $Al_2Cl_6$ , 2 +  $Al_2Br_6$  (*Am.* 27, 248 *C.* 1902 [1] 1291).  
 6) Dihydrobiphenylenoxyd. Sm. 65° (*M.* 22, 565).
- $C_{12}H_{10}O_2$  \*2) 2,2'-Dioxybiphenyl. Sm. 109°; Sd. 315°<sub>765</sub> (*B.* 34, 1662; *B.* 35, 302 *C.* 1902 [1] 586).  
 \*8) Methyl-1-Oxy-2-Naphtylketon (*B.* 35, 861 *C.* 1902 [1] 812).  
 23) isom. 7,8-Dioxyacenaphten. Sm. 145° (*A.* 290, 205). — \*II, 674.
- $C_{12}H_{10}O_3$  \*11) Oxyessig-2-Naphtyläthersäure. Sm. 156° (*B.* 34, 3193).  
 29) Methyl-1,8-Dioxy-2-Naphtylketon. Sm. 100—101° (*C.* 1901 [2] 1287; *D. R. P.* 129035 *C.* 1902 [1] 688).  
 30) Methylester d. 3-Oxynaphtalin-2-Carbonsäure. Sm. 72° (68—69,5°); Sd. 205—207°<sub>160</sub> (*M.* 22, 791; *B.* 34, 4153 *C.* 1902 [1] 317).  
 31) Benzoeat d. 5-Oxy-1-Keto-2,3-Dihydro-R-Penten. Sm. 72—73° (*B.* 35, 3210 *C.* 1902 [2] 1250).
- $C_{12}H_{10}O_4$  \*9) 7-Oxy-3-Acetyl-2-Methyl-1,4-Benzpyron +  $H_2O$ . Sm. 182—184° (wasserfrei) (*B.* 34, 106).  
 \*13) Cinnamylidenmalonsäure (*B.* 35, 2412 *C.* 1902 [2] 444).  
 \*15) Benzol-1,4-Di[Aethenyl- $\beta$ -Carbonsäure] (*B.* 34, 2784).  
 \*25) Aethylester d. 1,3-Diketo-2,3-Dihydroindolen-2-Carbonsäure (*B.* 35, 246).  
 30) 2,4,2',4'-Tetraoxybiphenyl. Sm. 222° (*D. R. P.* 90341). — \*II, 631.  
 31) 2,5,3'-Trioxydiphenyläther (*B.* 30, 2568). — \*II, 613.  
 32)  $\alpha$ -Phenyl- $\alpha\gamma$ -Butadien- $\beta\delta$ -Dicarbonsäure (Benzalglutakonsäure). Zers. bei 161° (*B.* 35, 1665 *C.* 1902 [1] 1320).  
 33) 6,8-Dimethyl-1,4-Benzpyron-2-Carbonsäure. Sm. 278° u. Zers. (*Soc.* 79, 1189).  
 34) Dialdehyd d.  $\alpha\beta$ -Di[2-Furanyl]äthan-5,5'-Dicarbonsäure. Sm. 119 bis 120° (*Soc.* 79, 812).  
 35) Aethylester d. 1,2-Benzpyron-4-Carbonsäure. Sm. 77—78° (*B.* 34, 422).  
 36) Aethylester d. 1,4-Benzpyron-2-Carbonsäure. Sm. 69—70° (*Soc.* 79, 472).  
 37) Acetat d. 7-Oxy-2-Methyl-1,4-Benzpyron. Sm. 94—95° (*B.* 34, 108).
- $C_{12}H_{10}O_5$  19) 7-Methoxyl-1,4-Benzpyron-3-Methylcarbonsäure (Dehydrobrasil-säure). Sm. 197° (*C.* 1900 [1] 1293; *Soc.* 81, 230 *C.* 1902 [1] 354).  
 20) 6-Aethoxyl-1,4-Benzpyron-2-Carbonsäure +  $H_2O$ . Sm. 235° u. Zers. (wasserfrei) (*B.* 35, 2548 *C.* 1902 [2] 597).  
 21) 7-Aethoxyl-1,4-Benzpyron-2-Carbonsäure. Sm. 234° u. Zers. (*B.* 34, 2478).  
 22)  $\alpha$ ,2-Lakton d.  $\alpha$ -Oxy- $\alpha$ -[4- oder 5-Aethoxylphenyl]äthen- $\alpha^2,\beta$ -Dicarbonsäure ( $\beta$ -Aethoxylphthalylessigsäure). Sm. 246—248° u. Zers. (*B.* 34, 3737 *C.* 1902 [1] 39).  
 23) Methylester d. 7-Oxy-1,2-Benzpyronmethylester-4-Carbonsäure. Sm. 115° (*B.* 34, 382).  
 24) Aethylester d. 2-Oxy-1,3-Diketo-2,3-Dihydroindolen-2-Carbonsäure. Sm. 120° (*B.* 34, 2149).  
 25) Aethylester d. 7-Oxy-1,2-Benzpyron-3-Carbonsäure. Sm. 165 bis 170° (*B.* 34, 385).  
 26) Aethylester d. 7-Oxy-1,2-Benzpyron-4-Carbonsäure. Sm. 153 bis 154° (*B.* 34, 381).  
 27) 5-Acetat d. 5,7-Dioxy-1,4-Benzpyron-7-Methyläther. Sm. 141° (*B.* 35, 864 *C.* 1902 [1] 813).

- $C_{12}H_{10}O_8$  11) 3,4,5,3',4',5'-Hexaoxybiphenyl? Sm. oberh. 200° u. Zers. (*B.* 35, 2957 *C.* 1902 [2] 1041).  
 12) ?-Hexaoxybiphenyl. Zers. bei 200° (*M.* 22, 593).  
 13)  $\alpha$ - $\beta$ -Di[2-Furanyl]äthan-5,5'-Dicarbonsäure. Sm. 267—269°. Ba (*Soc.* 79, 814).  
 14) 6,7-Dioxy-1,2-Benzpyrondimethyläther-4-Carbonsäure. Sm. 241 bis 244° (*B.* 34, 425).  
 15) 5,7-Dioxy-1,4-Benzpyrondimethyläther-2-Carbonsäure +  $H_2O$ . Sm. 244,5° (wasserfrei) (*B.* 35, 863 *C.* 1902 [1] 812).  
 16) Aethylester d. 6,7-Dioxy-1,2-Benzpyron-3-Carbonsäure. Sm. 244 bis 245° (*B.* 34, 426).  
 17) Aethylester d. 6,7-Dioxy-1,2-Benzpyron-4-Carbonsäure +  $\frac{1}{2}H_2O$ . Sm. 207—208° (wasserfrei) (*B.* 34, 424).
- $C_{12}H_{10}O_8$  \*1) 5-Acetoxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 115—123° (*B.* 35, 2913, 2915 *C.* 1902 [2] 1042).
- $C_{12}H_{10}N_2$  \*4) 3-Amidocarbazol. Sm. 259° u. Zers. HCl (*B.* 34, 1679).  
 \*5) 1-Methyl- $\beta$ -Naphtimidazol. Sm. 88° (2HCl, PtCl<sub>4</sub>) (*B.* 34, 933).  
 \*6) 2-Methyl- $\beta$ -Naphtimidazol. Sm. 168—169°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 34, 935).  
 10) 1,8-Aethyliden-1,8-Diamidonaphtalin. HCl (*C.* 1902 [1] 353).  
 11) p-Amidocarbazol. Sm. 247—251° u. Zers. (D.R.P. 134983 *C.* 1902 [2] 1165).  
 12) Harman. Sm. 230°. (2HCl, PtCl<sub>4</sub> +  $\frac{1}{2}H_2O$ ), (HCl, AuCl<sub>3</sub>) (*C.* 1901 [1] 958).
- $C_{12}H_{10}N_4$  9) Verbindung (aus d. Verb.  $C_{12}H_8O_4N_4$ ). Sm. 215° (*B.* 34, 725).
- $C_{12}H_{10}J_2$  \*1) Diphenyljodoniumjodid. Sm. 168—175° (*Soc.* 81, 1359 *C.* 1902 [2] 1197).
- $C_{12}H_{10}S$  \*1) Diphenylsulfid (*B.* 34, 561; *B.* 34, 3969 *C.* 1902 [1] 199).
- $C_{12}H_{10}Se$  \*1) Diphenylselenid (*B.* 34, 560).
- $C_{12}H_{10}Te$  \*1) Diphenyltellurid (*B.* 34, 561, 570; *A.* 319, 26).
- $C_{12}H_{11}N$  \*3) 4-Amidobiphenyl. Sm. 53°. HCl, (2HCl, PtCl<sub>4</sub>),  $H_2SO_4$  (*J. pr.* [2] 63, 452).  
 8) 2-Benzylpyridin. Sd. 276°<sub>742</sub> (2HCl, PtCl<sub>4</sub>), Pikrat *C.* 1901 [2] 127).  
 9) 4-Benzylpyridin. Sd. 287°<sub>742</sub> (2HCl, PtCl<sub>4</sub>), Pikrat (*C.* 1901 [2] 128).
- $C_{12}H_{11}N_3$  13) ?-Diamidocarbazol.  $H_2SO_4$  (D.R.P. 128853 *C.* 1902 [1] 608).  
 14) Amidoharman. Sm. 298°. HCl,  $HNO_3$  (*C.* 1901 [1] 958).  
 15) Nitril d.  $\alpha$ -[4-Dimethylamidophenyl]äthen- $\beta$ - $\beta$ -Dicarbonsäure. Sm. 179—180° (*B.* 35, 1320 *C.* 1902 [1] 1055; *B.* 35, 3577 *C.* 1902 [2] 1384).
- $C_{12}H_{11}N_5$  5) 3,5-Diimido-1-[1-Naphtyl]tetrahydro-1,2,4-Triazol. Sm. 230°. HCl (*G.* 31 [1] 510).
- $C_{12}H_{12}O$  \*3) Aethyläther d. 1-Oxynaphtalin. Sd. 276,6°<sub>766</sub> (*B.* 34, 3171).  
 9)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Hexin (Butyrylphenylacetylen). Sd. 135—137° (*B.* 20, 46 *C.* 1902 [1] 404).  
 10) Tetrahydrobiphenylenoxyd. Sd. 268—269°. Pikrat (*M.* 22, 564; *M.* 23, 829 *C.* 1902 [2] 1468). — \*II, 602.
- $C_{12}H_{12}O_2$  \*1) Dimethyläther d. 2,7-Dioxynaphtalin (*B.* 35, 1321 *C.* 1902 [1] 1036).  
 16) Dimethyläther d. 2,3-Dioxynaphtalin. Sm. 115—116° (*M.* 23, 520 *C.* 1902 [2] 744).  
 17) Monoäthyläther d. 2,3-Dioxynaphtalin. Sm. 109—110° (*M.* 23, 520 *C.* 1902 [2] 744; D.R.P. 133459 *C.* 1902 [2] 554).
- $C_{12}H_{12}O_3$  \*5) Methyläther d. 7-Oxy-2,3-Dimethyl-1,4-Benzpyron (Dehydromethylacetylpaconol). Sm. 126—127° (*B.* 34, 2948).  
 \*18) Aethyläther d. 7-Oxy-2-Methyl-1,4-Benzpyron. Sm. 123—124° (*B.* 34, 108).  
 22) 7-Oxy-2-Propyl-1,4-Benzpyron. Sm. 148° (*B.* 34, 1698).  
 23) Methyläther d. 6-Oxy-2-Aethyl-1,4-Benzpyron. Sm. 87—88° (*B.* 34, 1695).  
 24)  $\delta$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Penten- $\beta$ -Carbonsäure ( $\alpha$ -Benzallävilinsäure). Sm. 121° (*A.* 319, 188 *C.* 1902 [1] 105).  
 25)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Penten- $\alpha$ -Carbonsäure ( $\delta$ -Benzallävilinsäure). Sm. 120° (*B.* 23, 74; *A.* 258, 132; *A.* 319, 189 *C.* 1902 [1] 106).  
 26) 4-Keto-1-Phenyl-R-Pentamethylen-2-Carbonsäure. Sm. 117—118° Ag (*A.* 315, 242).

- $C_{12}H_{12}O_3$  27) Anhydrid d.  $\beta$ -[4-Methylphenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 153° (*Am.* 28, 51 *C.* 1902 [2] 702).
- $C_{12}H_{12}O_4$  \*28) Aethylester d.  $\beta$ -[3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 67—68° (*B.* 34, 1469).
- 40) Dimethyläther d. 5,7-Dioxy-3-Methyl-1,2-Benzpyron. Sm. 189° (*Soc.* 81, 511 *C.* 1902 [1] 1333).
- 41)  $\delta$ -Acetoxy- $\alpha$ -Phenylpropen- $\gamma$ -Carbonsäure +  $H_2O$ . Sm. 78—79° (90—91° wasserfrei) (*A.* 319, 207 *C.* 1902 [1] 107).
- 42) Bis-R-Penten-2-Dicarbonsäure (Bis-Cyklopentadiëndicarbonsäure). Sm. 210° (*B.* 33, 69).
- 43) 4,5-Lakton d. 5-Oxymethyl-1,2-Dimethylbenzol-4-Carbonsäure-3-Methylcarbonsäure. Sm. 212—214° (*A.* 322, 385 *C.* 1902 [2] 737).
- 44) 2, $\alpha$ -Lakton d.  $\alpha$ -Oxy- $\alpha$ -Phenyläthan-2, $\beta$ -Dicarbonsäure- $\beta$ -Aethyl-ester (*B.* 34, 2835).
- 45) Zimmtäthylcarbonat. Fl. (*C.* 1901 [1] 347).
- $C_{12}H_{12}O_5$  24) 5,7-Dimethyläther d. 4,5,7-Trioxy-3-Methyl-1,2-Benzpyron. Sm. 248° (*Soc.* 81, 512 *C.* 1902 [1] 1334).
- 25) Oxyfumar-2,4-Dimethylphenyläthersäure. Sm. 210° u. Zers. (*Soc.* 79, 1188).
- 26)  $\alpha$ -Keto- $\alpha$ -Phenylbutan- $\gamma\gamma$ -Dicarbonsäure (Benzoyldimethylmalon-säure). Sm. oberh. 145° (*B.* 34, 4230 *C.* 1902 [1] 212).
- 27) 5,6-Dimethoxy-2-Methylbenzfuran-1-Carbonsäure. Sm. 184° (*B.* 34, 361).
- 28) 3,4-Lakton d. 3,4-Dioxy-7-Methoxy-3,4-Dihydrobenzpyran-3-Methylcarbonsäure (Lakton d. Dihydrobrasilsäure). Sm. 142—144° (*Soc.* 81, 229 *C.* 1902 [1] 354).
- $C_{12}H_{12}O_6$  \*3) Triacetat d. 1,2,3-Trioxybenzol (*C.* 1901 [2] 903).
- \*20) 3-Oxy-7-Methoxy-2,3-Dihydro-1,4-Benzpyron-3-Methylcarbon-säure (Brasilsäure). Sm. 129°. Na, Ba +  $H_2O$ , Ba +  $2H_2O$ , Ag (*Soc.* 79, 1410 *C.* 1902 [1] 203; *C.* 1900 [1] 1293; *Soc.* 81, 226 *C.* 1902 [1] 354, 816).
- 21)  $\gamma$ -Oxy- $\alpha$ -[4-Methoxyphenyl]propen- $\beta\gamma$ -Dicarbonsäure (Aniseryl-äpfelsäure). Zers. bei 177° (*A.* 319, 186 *C.* 1902 [1] 106).
- 22)  $\alpha$ -Phenylpropan- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 199° u. Zers. (*A.* 315, 245).
- 23) 1,2-Dimethylbenzol-3-Methylcarbonsäure-4,5-Dicarbonsäure +  $2H_2O$ . Sm. 221° (*A.* 322, 386 *C.* 1902 [2] 737).
- 24) Säure (aus Isoiron). Sm. 214° (*C.* 1901 [1] 1219).
- $C_{12}H_{12}O_7$  \*3) 3-Oxy-1-Methylbenzyläthyläther-2,4,6-Tricarbonsäure +  $H_2O$ . Sm. 242—243° (*G.* 31 [1] 157).
- \*5) Monoäthylester d. 3-Oxy-1-Methylbenzol-2,4,6-Tricarbonsäure +  $H_2O$ . Sm. 224° (*G.* 31 [1] 153).
- 6)  $\alpha\gamma$ - $\epsilon\eta$ -Dilakton d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\delta$ -Acetyl- $\delta$ -Methyl- $\beta\epsilon$ -Heptadien- $\alpha\epsilon$ -Dicarbonsäure +  $H_2O$ . (Ketobutylidenbistetransäure). Sm. 144° u. Zers. (*A.* 315, 160).
- 7) Methyl-ester d. 4,6-Diacetoxy-2-Oxybenzol-1-Carbonsäure? Sm. 83—86° (*M.* 22, 224).
- $C_{12}H_{12}O_8$  \*2) Aethylester d. Diacetyloxykomensäure. Sm. 75° (*Soc.* 81, 1007 *C.* 1902 [2] 371).
- $C_{12}H_{12}N_2$  \*3) 2,2'-Diamidobiphenyl. Sm. 81° (*B.* 34, 3329).
- \*6) Benzidin. Dipikrat (*C.* 1901 [1] 1319; *B.* 35, 1433 *C.* 1902 [1] 1205; *J. pr.* [2] 66, 166 *C.* 1902 [2] 936).
- \*10) Hydrazobenzol (*A.* 316, 331; *B.* 35, 1968 *Anm.* *C.* 1902 [2] 111; *B.* 35, 1433 *C.* 1902 [1] 1205).
- $C_{12}H_{12}Br_6$  \*1) Hexa[Brommethyl]benzol (*B.* 35, 872 *C.* 1902 [1] 804).
- $C_{12}H_{12}N$  \*3) 2-Aethylamidonaphtalin. HCl, Camphersulfonat (*Bl.* [3] 27, 882 *C.* 1902 [2] 990).
- \*5) 2-Dimethylamidonaphtalin. Sm. 46°; Sd. 304,5—305°. HCl, d-Camphersulfonat (*Bl.* [3] 27, 887 *C.* 1902 [2] 991; *Bl.* [3] 27, 981 *C.* 1902 [2] 1211).
- $C_{12}H_{12}N_3$  \*2) 2,4'-Diamidodiphenylamin. 2HCl (*B.* 34, 3093).
- 8) 2,3'-Diamidodiphenylamin (*B.* 34, 3091).
- 9) 5-Phenylazo-2,4-Dimethylpyrrol. Sm. 118—119° (*C.* 1901 [1] 1323).
- 10) 3-Phenylazo-2,5-Dimethylpyrrol. Sm. 135° (124°) (*B.* 19, 2258; *C.* 1901 [1] 1323).

- $C_{12}H_{13}N_3$  11) 6-Phenylamido-2,4-Dimethyl-1,3-Diazin. Sm. 104°. HCl (B. 35, 1578 C. 1902 [1] 1236).  
 12) 6-Phenylamido-4,5-Dimethyl-1,3-Diazin. Sm. 152° (B. 34, 2826).  
 13) 2-Phenylamido-4,6-Dimethyl-1,3-Diazin. Sm. 88—89°. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 3961 C. 1902 [1] 127).
- $C_{12}H_{13}N_5$  2) 1-Naphtylbiguanid +  $\frac{1}{2}H_2O$ . Sm. 158°. HCl, 2HCl, (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> +  $\frac{1}{2}H_2O$ , Cu + 2H<sub>2</sub>O, (2HCl, Cu +  $2\frac{1}{2}H_2O$ ), (2HNO<sub>3</sub>, Cu), (H<sub>2</sub>SO<sub>4</sub>, Cu + 2H<sub>2</sub>O) (M. 22, 1146 C. 1902 [1] 462).  
 3) 2-Naphtylbiguanid. Sm. 168—173°. HCl, (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> +  $\frac{1}{2}H_2O$ , Cu + 5H<sub>2</sub>O, (2HCl, Cu + 2H<sub>2</sub>O), (2HNO<sub>3</sub>, Cu), (H<sub>2</sub>SO<sub>4</sub>, Cu +  $1\frac{1}{2}H_2O$ ) (M. 22, 1156 C. 1902 [1] 462).
- $C_{12}H_{14}O$  8)  $\beta$ -Oxy- $\beta$ -Dimethyl- $\beta$ -Deken. Sd. 113—116° (C. 1901 [2] 623).  
 9)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Hexen. Sd. 275° (B. 35, 3089 C. 1902 [2] 1110).  
 10)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\delta$ -Methyl- $\alpha$ -Penten. Sd. 274—276° (C. 1902 [2] 189).  
 11)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\beta$ -Aethyl- $\alpha$ -Buten. Sd. 120—130°<sub>18</sub> (B. 35, 3090 C. 1902 [2] 1111).  
 12) 6-Acetyl-1,2,3,4-Tetrahydronaphtalin. Sd. 289—291° u. Zers. (B. 35, 2511 C. 1902 [2] 451).
- $C_{12}H_{14}O_2$  \*4)  $\alpha\gamma$ -Diketo- $\alpha$ -Phenylhexan (Benzoylbutyrylmethan). Cu (R. 20, 46 C. 1902 [1] 46).  
 25)  $\alpha\gamma$ -Diketo- $\alpha$ -Phenyl- $\beta$ -Methylpentan (Methylpropionylacetophenon). Sd. 165—166°<sub>10</sub> (Bl. [3] 27, 70 C. 1902 [1] 567).  
 26) Aethylester d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sd. 155—160°<sub>30</sub> (Soc. 79, 1312 C. 1902 [1] 195).  
 27) Verbindung (aus  $\alpha$ -Bromisobuttersäureäthylester u. 1-Methylbenzol-4-Carbonsäurealdehyd) (C. 1902 [1] 1293).
- $C_{12}H_{14}O_3$  55) Aethylester d.  $\beta$ -Oxypropenphenyläther- $\alpha$ -Carbonsäure (Ae. d.  $\beta$ -Oxyisocrotonphenyläthersäure). Sd. 147—148°<sub>14</sub> (Soc. 79, 1189).
- $C_{12}H_{14}O_4$  \*7) Oxyessig-2-Methoxyl-4-Allylphenyläthersäure + H<sub>2</sub>O (Eugenolglykolsäure). Sm. 81° (100° wasserfrei). K +  $\frac{1}{2}H_2O$ , Ba + 2H<sub>2</sub>O, Zn + 4H<sub>2</sub>O, Cu + 2H<sub>2</sub>O, Ag (M. 22, 123).  
 50)  $\beta$ -[4-Methylphenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 165—167° (164 bis 165°). Ca, Cu + H<sub>2</sub>O, Ag<sub>2</sub> (B. 34, 790; Am. 28, 49 C. 1902 [2] 702).  
 51) Aethyl-2,4-Dimethylphenylester d. Oxalsäure. Sd. 159°<sub>10</sub> (B. 35, 3445 C. 1902 [2] 1303).  
 52) Aethyl-2,5-Dimethylphenylester d. Oxalsäure. Sd. 156°<sub>10</sub> (B. 35, 3445 C. 1902 [2] 1303).  
 53) Aethyl-3,4-Dimethylphenylester d. Oxalsäure. Sd. 164,5°<sub>10</sub> (B. 35, 3445 C. 1902 [2] 1303).  
 54) 4-Methylcarbonat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sd. 270—275° (D.R.P. 60716). — \*II, 588.  
 55) 4-Methylcarbonat d. 3,4-Dioxy-1-Propenylbenzol-3-Methyläther. Sd. 285—287° (D.R.P. 61848). — \*II, 591.
- $C_{12}H_{14}O_5$  32)  $\alpha$ -Oxy- $\alpha$ -[3,4-Dioxyphenyl]- $\beta$ -Methylpropan-3,4-Methylenäther- $\beta$ -Carbonsäure ( $\alpha\alpha$ -Dimethyl- $\beta$ -Piperonyläthylenmilchsäure). Sm. 156°. Na + 4H<sub>2</sub>O, Ba + 6H<sub>2</sub>O, Ag (C. 1902 [2] 118).  
 33)  $\beta$ -[2,4-Dimethoxylbenzoyl]propionsäure. Sm. 146—148° (Soc. 81, 233 C. 1902 [1] 355, 816).  
 34)  $\gamma$ -Oxy- $\alpha$ -Phenylbutan- $\beta\delta$ -Dicarbonsäure. Sm. 126—128°. Ba + H<sub>2</sub>O (B. 34, 2001).  
 35) Aldehyd d.  $\alpha$ -[2,3,4,5-Tetraoxyphenyl]-3,4-Methylenäther-2,5-Dimethyläther]propionsäure? Sd. 305° (C. 1902 [1] 1057).  
 36) Methylester d.  $\beta$ -[2-Oxy-4-Methoxylbenzoyl]propionsäure. Sm. bei 85° (Soc. 81, 233 C. 1902 [1] 816).  
 37) Diäthylester d. 2-Carboxybenzol-1-Carbonsäure. Sd. 298—303° (D.R.P. 60716). — \*II, 890.
- $C_{12}H_{14}O_6$  \*27) Diäthylester d.  $\alpha$ -Resorcindicarbonsäure. Sm. 137° (G. 31 [1] 169).  
 29)  $\alpha$ -[2,3,4,5-Tetraoxyphenyl]-3,4-Methylenäther-2,5-Dimethyläther]propionsäure? Sm. 97°. Na + 3H<sub>2</sub>O (C. 1902 [1] 1057).  
 30) Methylester d. Monacetyl-2,4,6-Trioxyl-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 98—100° (M. 22, 226).  
 31) Diäthylester d. Benzol-1,4-Dipercarbonsäure (D. d. Terephtaldipersäure). Sm. 37° (B. 34, 746).



- $C_{12}H_{14}O_7$  8) Verbindung (aus Phloroglucintrimethyläther). Sm. 185—187° (*M.* 23, 94 *C.* 1902 [1] 1099).
- $C_{12}H_{14}N_2$  22) 3,4,5-Trimethyl-1-Phenylpyrazol. Sd. 278—280°<sub>765</sub>. HCl, Pikrat (*B.* 34, 3983 *C.* 1902 [1] 192).
- $C_{12}H_{14}N_4$  12) 2-Amido-6-Phenylamido-4,5-Dimethyl-1,3-Diazin. Sm. 202—203° (*B.* 34, 2818).
- 13) 6-Amido-2-Phenylamido-4,5-Dimethyl-1,3-Diazin. Sm. 166° (*B.* 34, 2822).
- $C_{12}H_{15}N$  \*7) 2-Methylen-1,3,3-Trimethyl-2,3-Dihydroindol. HJ (*C.* 1902 [2] 1322).
- 22) 4-Benzyl-1,2,3,4-Tetrahydropyridin. Sd. 280—282°. (2HCl, PtCl<sub>4</sub>), Pikrat (*C.* 1902 [2] 597).
- 23) 2-tert. Butylindol. Sm. 73°; Sd. 276—279°. Pikrat (*C.* 1902 [2] 1322).
- 24) Diäthylindol. Fl. (*C.* 1901 [2] 1136).
- 25) 2,5-Dimethyl-1-Aethylindol. Sm. 47° (D.R.P. 128660 *C.* 1902 [1] 611).
- 26) 1,3-Dimethyl-2-Aethylindol. Sd. 285—287°. Pikrat (*C.* 1902 [2] 1322).
- 27) 1-Allyl-1,2,3,4-Tetrahydrochinolin. Sd. 264—266°<sub>755</sub>. HBr (*B.* 35, 183 *C.* 1902 [1] 429).
- 28) Base (aus 2,4-Dimethylpyrrol). Sm. 74°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 35, 2607 *C.* 1902 [2] 646; *C.* 1902 [2] 1473).
- 29) Verbindung (aus 2,4-Dimethylpyrrol u. Acetylaceton). Sm. 135°. (HCl, AuCl<sub>3</sub>) (*C.* 1902 [2] 1473).
- $C_{12}H_{16}O$  \*10) Propyl-2,4-Dimethylphenylketon. Sd. 135°<sub>17</sub> (*B.* 35, 2257 *C.* 1902 [2] 274).
- 26) 4'-Oxy-1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 132—133° (*A.* 318, 325).
- 27) Aethyläther d.  $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sd. 123—124°<sub>12</sub> (*B.* 35, 2267 *C.* 1902 [2] 276).
- 28)  $\gamma$ -Keto- $\alpha$ -Phenylhexan. Sd. 130°<sub>18</sub> (*B.* 35, 3089 *C.* 1902 [2] 1110).
- 29) Butyl-4-Methylphenylketon. Sm. 22°; Sd. 266—267° (*C. r.* 133, 1218 *C.* 1902 [1] 299).
- 30) Aethyl-2,4,6-Trimethylphenylketon. Sd. 125°<sub>13</sub> (*B.* 35, 2255 *C.* 1902 [2] 274).
- $C_{12}H_{16}O_2$  51)  $\alpha$ -Oxy- $\alpha$ -[2-Furanyl]- $\beta$ -Oktin. Sd. 150—151°<sub>13</sub> (*C. r.* 134, 356 *C.* 1902 [1] 629).
- 52) Aethyläther d. Propyl-4-Oxyphenylketon. Krystalle; Sd. 173 bis 174°<sub>23</sub> (*B.* 35, 2266 *C.* 1902 [2] 276).
- 53) Aethylester d.  $\beta$ -Phenylisobuttersäure (*C.* 1897 [2] 797). — \*II, 842.
- 54) Aethylester d. d- $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure (*C.* 1902 [1] 662).
- 55) Acetat d.  $\alpha$ -Oxy- $\alpha$ -Phenylbutan. Sd. 117—118°<sub>8</sub> (*C.* 1901 [2] 623).
- 56) Acetat d.  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sd. 122—125°<sub>20</sub> (*C.* 1901 [2] 623).
- 57) Acetat d.  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]propan. Sd. 130°<sub>25</sub> (*B.* 35, 2253 *C.* 1902 [2] 274).
- 58) Acetat d. 4-Oxy-1-sec. Butylbenzol. Sd. 255,5° (*B.* 33, 442). — \*II, 466.
- $C_{12}H_{16}O_3$  \*1) Asaron. Sm. 61° (*B.* 34, 1022; *B.* 35, 3190 *C.* 1902 [2] 1255).
- 53) 3-Aethoxymethyläther d. 3,4-Dioxy-1-Propenylbenzol (Aethoxyisoeugenol). Sd. 172°<sub>22</sub> (*C.* 1901 [2] 447).
- 54) 4-Oxy-1-Isocamylbenzol-2-Carbonsäure? Sm. 177° (*A.* 319, 340 *C.* 1902 [1] 351).
- 55)  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]- $\beta$ -Methylpropan- $\beta$ -Carbonsäure (p-Tolyl-oxypivalinsäure). Sm. 111,5—112,5°. K, Ba (*C.* 1902 [1] 1293).
- 56) Aethylester d.  $\alpha$ -Oxy- $\alpha$ -Phenylbuttersäure. Sd. 142—145°<sub>18</sub> (*C. r.* 135, 628 *C.* 1902 [2] 1359).
- 57)  $\alpha$ -Acetat d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan-4-Methyläther. Sd. 156°<sub>20</sub> (*B.* 35, 2263 *C.* 1902 [2] 276).
- 58) Methylcarbonat d. 2-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 258° (D.R.P. 60716). — \*II, 459.
- $C_{12}H_{16}O_4$  \*6) Aspidinol. Sm. 156—161° (*A.* 316, 247).
- 21) Dipropyläther d. 2,5-Dioxy-1,4-Benzochinon. Sm. 187° (*B.* 34, 3997 *C.* 1902 [1] 188).
- 22) Filcinsäurebutanon +  $\frac{1}{2}$  H<sub>2</sub>O. Sm. 65—67° (95—97° wasserfrei) (*A.* 318, 236).
- 23) Dimethylester d. Säure C<sub>10</sub>H<sub>12</sub>O<sub>4</sub>. Sm. 148° (*B.* 34, 2664).

- $C_{12}H_{16}O_5$  \*13) Diäthylester d. 3-Methylfuran-4-Carbonsäure-5-Methylcarbon-säure. Sd. 168<sup>30</sup> (B. 35, 1548 C. 1902 [1] 1226).  
 15) Aethylester d. 3,4,5-Trioxybenzolttrimethyläther-1-Carbonsäure (B. 35, 2544 C. 1902 [2] 596).  
 16) Dipropylester d. Furan-2,5-Dicarbonsäure. Sm. 21—21,5°; Sd. 177—178<sup>15</sup> (B. 34, 3453).  
 17) Diisopropylester d. Furan-2,5-Dicarbonsäure. Sm. 42—42,5°; Sd. 156—159<sup>13</sup> (B. 34, 3455).
- $C_{12}H_{16}O_6$  \*1)  $\beta$ -Phenolglykosid. Sm. 174—175° (B. 34, 964, 2898).  
 8)  $\beta$ -Phenolgalaktosid. Sm. 139—141° (B. 35, 839 C. 1902 [1] 758).  
 9) Verbindung (aus Hydrochinon u. Oxaleessigsäureäthylester) (B. 35, 1210 C. 1902 [1] 998).
- $C_{12}H_{16}O_8$  14)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxy- $\beta\beta$ -Dimethylhexan- $\alpha\gamma\delta\delta$ -Tetracarbonsäure. Sm. 193° (Soc. 79, 772).  
 15) Triacetat d. löslichen Stärke. Zers. bei 275° (M. 22, 1052 C. 1902 [1] 182).  
 16) Triacetat eines Dextrins. Sm. 155° (M. 22, 1059 C. 1902 [1] 182).
- $C_{12}H_{16}N_2$  10) 3-Methyl-4-Aethyl-1-Phenyl-4,5-Dihydropyrazol. Sd. 294° (B. 34, 1307).  
 C 59,0 — H 6,6 — N 34,4 — M. G. 244.
- $C_{12}H_{16}N_6$  1)  $\alpha\beta$ -Diamido- $\alpha\beta$ -Di[2-Methyl-4-Pyrimidyl]äthan. Sm. 161° (B. 35, 1574 C. 1902 [1] 1236).
- $C_{12}H_{17}N$  \*22) Base (aus 2,5-Dimethylpyrrol). HJ (B. 35, 2606 C. 1902 [2] 646; C. 1902 [2] 1472).  
 33) 4'-Amido-1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 54—56°. HCl, HBr, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> (A. 318, 323).  
 34) 1-Aethylimidomethyl-4-Isopropylbenzol. Sd. 149<sup>19</sup> (B. 35, 414 C. 1902 [1] 663).  
 35) i-2-Benzylhexahydropyridin. Sm. 32°; Sd. 267—268° (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (C. 1902 [2] 597).  
 36) 4-Benzylhexahydropyridin. Sm. 6—7°; Sd. 279°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (C. 1902 [2] 597).
- $C_{12}H_{17}Cl$  4)  $\alpha$ -Chlor- $\alpha$ [2,4-Dimethylphenyl]butan. Sd. 129<sup>14</sup> (B. 35, 2257 C. 1902 [2] 274).
- $C_{12}H_{17}Br$  2)  $\beta$ -Brom-5-Pseudobutyl-1,3-Dimethylbenzol. Sm. 45° (D.R.P. 90291). — II, 35.
- $C_{12}H_{17}J$  1) 2-Jod-1,3,5-Triäthylbenzol. Sd. 149—150<sup>12</sup> (J. pr. [2] 65, 397 C. 1902 [1] 1324; J. pr. [2] 65, 577 C. 1902 [2] 352).
- $C_{12}H_{18}O$  \*1)  $\alpha$ -Oxy- $\alpha$ [2,4-Dimethylphenyl]butan. Sd. 134<sup>14</sup> (B. 35, 2257 C. 1902 [2] 274).  
 21)  $\varepsilon$ -Oxy- $\varepsilon$ -Phenyl- $\beta$ -Methylpentan. Sd. 132° (C. 1901 [2] 623).  
 22)  $\alpha$ -Oxy- $\alpha$ [2,4,6-Trimethylphenyl]propan. Sd. 172<sup>14</sup> (B. 35, 2255 C. 1902 [2] 274).  
 23) 2-Methylphenyläther d. act. Amylalkohol. Sd. 210—215 (A. ch. [7] 6, 139). — \*II, 423.  
 24) 3-Methylphenyläther d. act. Amylalkohol. Sd. 230—240° (A. ch. [7] 6, 140). — \*II, 428.
- $C_{12}H_{18}O_2$  24) 4-Aethyläther d.  $\alpha$ -Oxy- $\alpha$ [4-Oxyphenyl]butan. Sm. 22°; Sd. 164 bis 166<sup>23</sup> (B. 35, 2267 C. 1902 [2] 276).  
 25) Diäthyläther d. 2,3-Dioxy-1-Aethylbenzol. Sd. 121<sup>15</sup> (M. 23, 187 C. 1902 [1] 1331).  
 26) Cyttylidenessigsäure. Sd. 175<sup>18</sup> (Bl. [3] 27, 602 C. 1902 [2] 363).  
 27) Säure (aus Carvenon). Sd. 175—180<sup>17</sup>. Ag (A. 323, 157 C. 1902 [2] 843).  
 28) Aethylester d. 1,3-Dimethyl-1,2-Dihydrobenzol-5-Methylcarbon-säure. Sd. 136—137<sup>18</sup> (A. 323, 142 C. 1902 [2] 842).
- $C_{12}H_{18}O_3$  \*5) Triäthyläther d. 1,2,4-Trioxybenzol. Sm. 33° (M. 22, 347).  
 \*16) Methyl ester d. Camphocarbonsäure. (B. 35, 3511 C. 1902 [2] 1320).  
 25) Methylcamphocarbonsäure. Sm. 104° (B. 35, 3625 C. 1902 [2] 1467).  
 26) Acetat d.  $\varepsilon$ -Oxy- $\varepsilon$ -[2-Furanyl]- $\beta$ -Methylpentan. Sd. 123—124<sup>14</sup> (C. 1901 [2] 623).
- $C_{12}H_{18}O_4$  \*11) Aethylester d. 3,5-Diketo-1,1,2-Trimethylhexahydrobenzol-2-Carbonsäure. Sm. 93,5—94,5°; Sd. 190<sup>31</sup> u. Zers. (Soc. 79, 141).

- $C_{13}H_{18}O_4$  13) 1,4-Dipropyläther d. 1,2,4,5-Tetraoxybenzol. Sm.  $95^\circ$  (B. 34, 3997 C. 1902 [1] 188).
- 14) D-d-Acetoxyfenchensäure. Sm.  $122-124^\circ$  (A. 315, 293).
- 15) D-l-Acetoxyfenchensäure. Sm.  $109-110^\circ$  (A. 315, 288).
- 16) Äthylester d. 3,5-Diketo-1-Isopropylhexahydrobenzol-2-Carbonsäure. Sm.  $101^\circ$  (C. 1901 [2] 415; Soc. 81, 677 C. 1902 [2] 115).
- 17) Diäthylester d. Isoprensäure. Sd.  $125-128^\circ_{15}$  (C. 1902 [1] 42).
- 18) Monoterpineolester d. Oxalsäure. Sd.  $157-160^\circ_{650}$  (D.R.P. 134553 C. 1902 [2] 975).
- $C_{12}H_{18}O_5$  6)  $\gamma\delta$ -Anhydrid d.  $\beta\zeta$ -Dimethylheptan- $\gamma\delta\epsilon$ -Tricarbonsäure (A. d.  $\alpha\alpha'$ -Diisopropyltricarballylsäure). 2 Modif. Fl. (Soc. 81, 46 C. 1902 [1] 111).
- $C_{12}H_{18}O_6$  16) trim.  $\beta\gamma$ -Diketobutan. Sm.  $105^\circ$ ; Sd.  $280^\circ_{757}$  (B. 35, 3293 C. 1902 [2] 1247).
- 17) Diäthylester d.  $\beta\delta$ -Diketopentan- $\gamma$ -Carbonsäure- $\gamma$ -Methylcarbon-säure (D. d. uns-Diacetylbernsteinsäure). Sd.  $275^\circ$  (J. pr. [2] 65, 532 C. 1902 [2] 345).
- $C_{12}H_{18}O_8$  \*15) Tetraacetat d. r-Erythrit. Sm.  $50-51^\circ$  (Bl. [3] 25, 744).
- 18) Tetraacetat d. d-Erythrit. Fl. (Bl. [3] 25, 741).
- 19) Tetraacetat d. l-Erythrit. Fl. (Bl. [3] 25, 741).
- $C_{12}H_{18}N_2$  7) Verbindung (aus  $\alpha$ -Methylbuttersäurealdehydammoniak). Sd. 115 bis  $120^\circ_{30-40}$  (C. r. 134, 123 C. 1902 [1] 412).
- $C_{12}H_{19}N$  19) 1-Äthylamidomethyl-4-Isopropylbenzol. Sd.  $132^\circ_{10}$ . HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, Pikrat (B. 35, 414 C. 1902 [1] 663).
- $C_{12}H_{20}O$  7) Äthyläther d. 1-Oxycamphen. Sd.  $203-204^\circ$  (Soc. 81, 274 C. 1902 [1] 660).
- $C_{12}H_{20}O_2$  \*11) Acetat d. l-Borneol. Sd.  $223^\circ$  (C. r. 134, 609 C. 1902 [1] 872).
- \*12) Acetat d. Isoborneol. Sd.  $102^\circ_{12}$  (J. pr. [2] 65, 225 C. 1902 [1] 1220).
- \*20) Acetat d. l-Linalool. Sd.  $198-199^\circ_{760}$  (J. pr. [2] 64, 254).
- \*30) Acetat d. Isofenchylalkohol. Sd.  $97^\circ_{12}$  (J. pr. [2] 65, 228 C. 1902 [1] 1220).
- 32) Äthyläther d. Oxycampher (aus Campherchinon). Sm.  $85-86^\circ$  (B. 35, 3814 C. 1902 [2] 1459).
- 33) 2-Methyl-5-Isopropyl-1,2,3,4-Tetrahydrobenzol-6-Methylcarbon-säure? Sd.  $158-163^\circ_{10}$ . Ag (A. 323, 153 C. 1902 [2] 843).
- 34)  $\alpha$ -Kaurolsäure. Sm.  $81-83^\circ$  (C. 1901 [1] 943).
- 35)  $\beta$ -Kaurolsäure. Sm.  $85-87^\circ$  (C. 1901 [1] 943).
- 36) Picipimarinsäure. Sm.  $130-135$  (Ar. 240, 275 C. 1902 [2] 134).
- 37) Säure (aus Carvomentholessigsäureäthylester). Sd.  $166-172^\circ_{11}$  (A. 323, 155 C. 1902 [2] 843).
- 38) Äthylester d. 1-Methylhexahydrobenzol-3-Äthyliden- $\alpha$ -Carbon-säure. Sd.  $103-104^\circ_{11}$  (B. 35, 2142 C. 1902 [2] 279).
- 39) Isobutylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd.  $137-140^\circ_{23-24}$  (C. 1901 [1] 1149; D.R.P. 133631 C. 1902 [2] 553).
- 40) Acetat d. Myrcenol. Sd.  $111-112^\circ_{10}$  (Bl. [3] 25, 688).
- 41) Verbindung (aus Oxycampher). Sd.  $231-232^\circ_{714}$  (B. 35, 3815 C. 1902 [2] 1459).
- $C_{12}H_{20}O_3$  11) Äthylester d. 4-Keto-3-Isopropyl-1-Methyl-R-Pentamethylen-3-Carbonsäure. Sd.  $130-131^\circ_{15}$  (A. 317, 88).
- 12) Äthylester d. Dihydroketocampholensäure. Sd.  $147-148^\circ_{25}$  (Bl. [3] 27, 410 C. 1902 [1] 1335).
- 13) Äthylester d. Ketonensäure  $C_{10}H_{16}O_3$  (aus Campherchinon). Sd.  $250^\circ$  (B. 35, 3832 C. 1902 [2] 1461).
- $C_{12}H_{20}O_4$  \*22) Diäthylester d.  $\beta$ -Methyl- $\beta$ -Penten- $\epsilon\epsilon$ -Dicarbonsäure. Sd. 140 bis  $141^\circ_{20}$  (C. 1902 [1] 630).
- 37) Äthylester d.  $\beta\delta$ -Diketononan- $\gamma$ -Carbonsäure. Sd.  $136^\circ_{10}$ . Cu (C. r. 135, 110 C. 1902 [2] 512; Bl. [3] 27, 1049 C. 1902 [2] 1411).
- 38) Diäthylester d. 1-Isopropyl-R-Trimethylen-2,2-Dicarbonsäure. Sd.  $122-132^\circ_{15}$  (C. 1902 [2] 106).
- 39) Diäthylester d. Homopilopsäure. Sd.  $293^\circ_{755}$  (B. 33, 2361, 2894; 34, 732; 35, 200).
- 40) Diacetat d. Glykol  $C_8H_{16}O_2$ . Sd.  $127-132^\circ_{15}$  (M. 22, 17).
- $C_{12}H_{20}O_5$  13) Diäthylester d.  $\delta$ -Keto- $\beta$ -Methylpentan- $\alpha\alpha$ -Dicarbonsäure. Sd. 150 bis  $170^\circ_{15}$  u. Zers. (B. 35, 2181 C. 1902 [2] 374).
- $C_{12}H_{20}O_6$  \*4) Triäthylidenäther d. Mannit. Sm.  $171-173^\circ$  (Bl. [3] 25, 585).

- $C_{12}H_{20}O_6$  22)  $\beta\zeta$ -Dimethylheptan- $\gamma\delta\epsilon$ -Tricarbonsäure ( $\alpha\alpha$ -Diisopropyltricarbaldehydsäure).  $\alpha$ -Modif. Sm. 173°;  $\beta$ -Modif. Sm. 156°.  $Ag_3$  (Soc. 81, 46 C. 1902 [1] 111).
- 23) Diäthylester d. 1- $\alpha$ -Butyroxyläthan- $\alpha\beta$ -Dicarbonsäure. Sd. 157°<sub>13</sub> (Ph. Ch. 36, 142).
- $C_{12}H_{20}O_7$  \*4) Triäthylester d. Citronensäure. + 3SbCl<sub>5</sub> (B. 35, 1127 C. 1902 [1] 925).
- $C_{12}H_{20}N_2$  5) Methyläthylakrolazin. Sm. 54–55°; Sd. 150°<sub>20</sub> (M. 22, 72).
- 6) 4, 6-Di[Dimethylamido]-1, 3-Dimethylbenzol. Sd. 243–245°<sub>757</sub>. (2HCl, PtCl<sub>4</sub>) Pikrat (Soc. 81, 654 C. 1902 [1] 1279). C 65,5 — H 9,1 — N 25,4 — M. G. 220).
- $C_{12}H_{20}N_4$  1) Verbindung (aus Acetonylacetone u. Hydrazinhydrat). Sd. 157–158°. 2HCl, (2HCl, PtCl<sub>4</sub>) (Soc. 79, 683).
- $C_{12}H_{21}N_3$  5) Nitril (aus Isovaleraldehydammoniak). Sm. 58° (C. r. 134, 1596 C. 1902 [2] 347).
- $C_{12}H_{22}O$  8) Äthyläther d. Fenchylalkohol. Sd. 200–201° (A. 315, 282).
- $C_{12}H_{22}O_2$  27) 1,1-Dioxydodekahydrobiphenyl. Sm. 129–130° (B. 34, 2801).
- 28) Äthylester d.  $\zeta$ -Methyl- $\beta$ -Hepten- $\epsilon$ -Methylcarbonsäure. Sd. 108 bis 111°<sub>14</sub> (A. 323, 326 C. 1902 [2] 1111).
- $C_{12}H_{22}O_3$  \*4) Anhydrid d. Capronsäure. Sd. 242–245° (B. 34, 182, 925).
- \*22) Äthylester d.  $\alpha$ -[1-Oxy-3-Methylhexahydrophenyl]propionsäure. Sd. 123–124°<sub>10</sub> (B. 35, 2141 C. 1902 [2] 278).
- 23) 2-Oxy-1-Methyl-4-Isopropylhexahydrobenzol-2-Methylcarbonsäure. Ag (A. 323, 155 C. 1902 [2] 843).
- 24) 3-Oxy-1-Methyl-4-Isopropylhexahydrobenzol-3-Methylcarbonsäure (Mentholessigsäure). Ag (A. 323, 152 C. 1902 [2] 842).
- 25) Anhydrid d. Isobutylessigsäure. Sd. 139°<sub>19</sub> (B. 34, 925).
- 26) Äthylester d.  $\delta$ -Ketononan- $\gamma$ -Carbonsäure. Sd. 128–129°<sub>13</sub> (C. r. 135, 110 C. 1902 [2] 512).
- 27) Äthylester d.  $\gamma$ -Keto- $\beta\zeta$ -Dimethylheptan- $\beta$ -Carbonsäure (Ae. d.  $\alpha$ -Isocaproylisobuttersäure). Sd. 121–124°<sub>20–22</sub> (C. 1901 [1] 724).
- 28) Äthylester d.  $\epsilon$ -Keto- $\delta$ -Äthyl- $\beta$ -Methylhexan- $\delta$ -Carbonsäure (Ae. d. Äthylisobutylacetessigsäure). Sd. 113–115°<sub>12</sub> (A. 317, 83 Anm.).
- 29) Mentylester d. Oxyessigsäure. Sd. 87° (D.R.P. 136411 C. 1902 [2] 1371).
- $C_{12}H_{22}O_4$  \*2) Dekan- $\alpha\alpha$ -Dicarbonsäure. Sm. 126,5–127°. Ba, Ag<sub>2</sub> (Soc. 79, 1201; B. 34, 901).
- \*3) Dimethylester d. Oktan- $\alpha\beta$ -Dicarbonsäure. Sm. 36° (M. 22, 421).
- \*5) Diäthylester d. Hexan- $\alpha\epsilon$ -Dicarbonsäure. Sd. 140°<sub>12</sub> (A. 317, 108).
- 37) sec. Dibutylester d. Äthan- $\alpha\beta$ -Dicarbonsäure. Sd. 255,5–256,5°<sub>750</sub> (Am. 26, 311).
- $C_{12}H_{22}O_5$  13) Diäthylester d.  $\alpha$ -Oxy- $\beta\gamma$ -Dimethylbutan- $\beta\gamma$ -Dicarbonsäure. Fl. (B. 35, 2941 C. 1902 [2] 1035).
- $C_{12}H_{22}O_6$  9) Dipropylester d. d- $\alpha\beta$ -Dioxyäthandimethyläther- $\alpha\beta$ -Dicarbonsäure. Fl. (Soc. 79, 959).
- $C_{12}H_{22}O_{11}$  \*9) Maltose (Soc. 81, 190 C. 1902 [1] 576; M. 23, 750 C. 1902 [2] 1100).
- \*10) Melbiose (C. 1902 [1] 524).
- \*12) Milchzucker (Laktose) (Soc. 81, 190 C. 1902 [1] 576).
- \*15) Rohrzucker (C. 1902 [1] 181; B. 34, 3747 C. 1902 [1] 30; Soc. 81, 189 C. 1902 [1] 576; C. r. 134, 111 C. 1902 [1] 412).
- 22) Cellobiose +  $\frac{1}{4}H_2O$  (Cellulose). Zers. bei 225° (B. 34, 1115; M. 22, 1011 C. 1902 [1] 183).
- 23) Dextrinose. Sm. 82–85° (A. 324, 236 C. 1902 [2] 1248).
- 24) Gentiobiose. Sm. 190–195°; Sd. 46,25°<sub>700</sub>. + 2CH<sub>3</sub>O (C. 1901 [1] 823; C. r. 135, 290 C. 1902 [2] 694; C. r. 135, 399 C. 1902 [2] 889; C. 1902 [2] 1499).
- 25) Galaktosidogalaktose (B. 35, 3149 C. 1902 [2] 1176).
- 26) Galaktosidoglykose (B. 35, 3146 C. 1902 [2] 1176).
- 27) Glykosidogalaktose (B. 35, 3148 C. 1902 [2] 1176).
- 28) Isolaktose (B. 35, 3151 C. 1902 [2] 1176).
- $C_{12}H_{23}N$  5) Dimethylthujylamin. Sd. 213,5–214°. (2HCl, PtCl<sub>4</sub>) (B. 34, 2280).
- $C_{12}H_{23}Cl$  2) Chlordodekanaphten. Sd. 130–135°<sub>17</sub> (Am. 25, 294).
- $C_{12}H_{24}O$  \*3) Äthyläther d. 1-Menthol (C. 1902 [2] 1238).

- $C_{12}H_{24}O_2$  \*1) Laurinsäure. Sm. 42°; Sd. 166°<sub>10-11</sub>. Ca + H<sub>2</sub>O, Sr + H<sub>2</sub>O, Ba, Mg, Zn, Cu, Pb, Mn, Co (*Am.* 27, 303 *C.* 1902 [1] 1303).  
 \*20)  $\beta\beta$ -Dimethylnonan- $\epsilon$ -Carbonsäure. Sm. 44—45°; Sd. 158°<sub>15</sub> (*A.* 318, 146 Ann.).  
 22) Kauronsäure. Sm. 86—89° (*C.* 1901 [1] 1228).  
 23) Säure (aus Gondangwachs). Sm. 54° (*R.* 20, 74).  
 24) Formiat d.  $\epsilon$ -Oxy- $\beta\beta$ -Dimethylnonan (F. d. Diisoamylcarbinol). Sd. 100—101° (*C.* 1901 [1] 612).  
 25) Acetat d.  $\alpha$ -Oxy- $\beta$ -Methylnonan. Sd. 238—240° (*C. r.* 135, 174 *C.* 1902 [2] 567).
- $C_{12}H_{24}O_3$  \*6)  $\alpha$ -Isobutyrat d.  $\alpha\gamma$ -Dioxy- $\beta\beta\delta$ -Trimethylpentan. Sd. 135—137°<sub>17</sub> (*M.* 22, 541).  
 11)  $\beta$ -Oxyundekan- $\beta$ -Carbonsäure. Sm. 46° (*C. r.* 134, 478 *C.* 1902 [1] 745).  
 12) Aethylester d.  $\zeta$ -Oxy- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäure. Sd. 152—153°<sub>13</sub> (*A.* 323, 327 *C.* 1902 [2] 1111).  
 13) Aethylester d.  $\delta$ -Oxy- $\beta\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sd. 188 bis 190°<sub>140-150</sub> (*C.* 1901 [2] 30).  
 C 57,1 — H 9,5 — N 33,3 — M. G. 252.
- $C_{12}H_{24}N_6$  1) Verbindung (aus Acetonylacetat u. Hydrazinhydrat). Sm. 130—132° (*Soc.* 79, 685; *B.* 35, 2170 *C.* 1902 [2] 261).
- $C_{12}H_{25}N$  \*2) 1-Aethylmenthylamin (*C.* 1902 [2] 1238).  
 3) 1-Dimethylmenthylamin (*C.* 1902 [2] 1238).
- $C_{12}H_{26}O$  7)  $\beta$ -Oxy- $\beta$ -Methylundekan. Sd. 117—118°<sub>12,5</sub> (*B.* 35, 3591 *C.* 1902 [2] 1357).  
 8)  $\epsilon$ -Oxy- $\beta\epsilon\theta$ -Trimethylnonan (Methyl-diisoamylcarbinol). Sd. 108—109°<sub>10</sub> (*C.* 1901 [1] 612; 1901 [2] 624).  
 7)  $\gamma\zeta$ -Dioxy- $\gamma\zeta$ -Diäthylloktan. Sm. 70° (*C.* 1901 [1] 999).  
 C 61,5 — H 11,1 — O 37,4 — M. G. 234.
- $C_{12}H_{26}O_2$  1)  $\theta\theta$ -Dimethyläther d.  $\alpha\beta\theta\theta$ -Tetraoxy- $\beta\zeta$ -Dimethylloktan. Sd. 151 bis 153° (*B.* 34, 2987).  
 2) Tetraäthyläther d.  $\alpha\alpha\delta\delta$ -Tetraoxybutan. Sd. 210—215° u. Zers. (*B.* 35, 1187 *C.* 1902 [1] 1011).
- $C_{12}H_{26}O_3$  1) Triäthyläther d.  $\gamma\delta\delta$ -Trimerkapto- $\beta$ -Methylpentan (*B.* 34, 1398).
- $C_{12}O_3Cl_6$  1) Anhydrid d. Hexachlornaphtalin-1,8-Dicarbonsäure. Sm. 205° (*G.* 32 [1] 49).
- $C_{12}O_4Br_6$  1) Hexabrom-1,2-Benzochinonbrenzkatechinäther (*Am.* 26, 35).
- 12 III —
- $C_{12}H_2O_3Cl_4$  1) Anhydrid d.  $\rho$ -Tetrachlornaphtalin-1,8-Dicarbonsäure. Sm. 235 bis 236° (*G.* 32 [2] 81 *C.* 1902 [2] 899).
- $C_{12}H_2O_4Cl_6$  1) Hexachlornaphtalin-1,8-Dicarbonsäure (*G.* 32 [1] 46).
- $C_{12}H_2O_4Br_6$  2) Hexabromdi- $o$ -Oxybrenzkatechinäther. Sm. noch nicht bei 300° (*Am.* 26, 39).
- $C_{12}H_3O_3Cl_3$  1) Anhydrid d.  $\rho$ -Trichlornaphtalin-1,8-Dicarbonsäure. Sm. 183 bis 185° (*G.* 32 [2] 82 *C.* 1902 [2] 899).
- $C_{12}H_3O_3J_3$  1) Anhydrid d.  $\rho$ -Trijodnaphtalin-1,8-Dicarbonsäure. Sm. 256—257° (*G.* 32 [2] 90 *C.* 1902 [2] 900).
- $C_{12}H_4O_4Br_6$  \*1) Hexabromphenochinon (*Am.* 27, 53 *C.* 1902 [1] 469).
- $C_{12}H_4O_4Br_4$  1) Verbindung (aus  $\rho$ -Tribrom-1,2-Dioxybenzolmonomethyläther). Sm. 186 bis 188° (*Bl.* [3] 25, 336). — \*II, 631.  
 C 39,6 — H 1,1 — O 44,0 — N 15,3 — M. G. 364.
- $C_{12}H_4O_{10}N_4$  1) 5,5'-Dinitroso-6,6'-Dioxy-3,3'-Bipyridyl-2,2'-Dioxyd-4,4'-Dicarbonsäure. Hydroxylaminsalz (*Soc.* 63, 1049; 75, 514). — \*I, 789.  
 C 34,0 — H 0,9 — O 45,3 — N 19,8 — M. G. 424.
- $C_{12}H_4O_{12}N_6$  1) 2,4,6,2',4',6'-Hexanitrobiphenyl. 2 + C<sub>6</sub>H<sub>6</sub> (Sm. 238°) (*B.* 34, 2179).
- $C_{12}H_4N_2Cl_6$  1) 2,4,6,2',4',6'-Hexachlorazobenzol. Sm. 188° (*Soc.* 79, 467).
- $C_{12}H_5O_3Br$  1) Anhydrid d.  $\rho$ -Bromnaphtalin-1,8-Dicarbonsäure. Sm. 211—212° (*G.* 32 [2] 86 *C.* 1902 [2] 900).
- $C_{12}H_5O_4J_3$  1)  $\rho$ -Trijodnaphtalin-1,8-Dicarbonsäure. Ag<sub>2</sub> (*G.* 32 [2] 91 *C.* 1902 [2] 901).  
 C 49,5 — H 1,7 — O 44,0 — N 4,8 — M. G. 291.
- $C_{12}H_5O_8N$  1) Triäthylester d. Säure C<sub>6</sub>H<sub>5</sub>O<sub>8</sub>N. Fl. (*B.* 34, 880).



- $C_{12}H_5O_{11}N_5$  C 36,4 — H 1,3 — O 44,6 — N 17,7 — M. G. 395.  
1) 2,4,6,8-Pentanitrodiphenyläther. Sm. 210° (D.R.P. 81970). — \*II, 382).
- $C_{12}H_6O_2Cl_4$  2) p-Tetrachlor-2,2'-Dioxybiphenyl. Sm. 178° (B. 35, 307 C. 1902 [1] 587).
- $C_{12}H_6O_2Br_4$  4) p-Tetrabrom-2,2'-Dioxybiphenyl +  $H_2O$ . Sm. 204—205° (wasserfrei) (B. 35, 306 C. 1902 [1] 587).
- $C_{12}H_6O_4J_2$  \*1) Tetraioddiphenyldioxyd (C. 1901 [1] 23).
- $C_{12}H_6O_4Br_4$  3) Verbindung (aus d. Verb.  $C_{12}H_4O_4Br_4$ ). Sm. 170—172° (Bl. [3] 25, 336). — \*II, 631.
- $C_{12}H_6O_6N_2$  \*1) 1,2-Phenylenäther d. 3,5-Dinitro-1,2-Dioxybenzol (Am. 26, 361).  
 $C_{12}H_6O_6N_2$  C 49,6 — H 2,1 — O 38,6 — N 9,7 — M. G. 290.  
1) 3-Oxy-1,2-Phenylenäther d. 3,5-Dinitro-1,2-Dioxybenzol. Sm. 258 bis 258,5° (Am. 26, 370).
- $C_{12}H_6O_6N_2$  3) p-Dinitronaphtalin-1,8-Dicarbonsäure. Sm. 208—210° (G. 32 [2] 94 C. 1902 [2] 901).
- $C_{12}H_6O_8N_4$  \*1) 2,4,2',4'-Tetranitrobiphenyl. Sm. 163° (165—166°) (B. 34, 2177; D.R.P. 129147 C. 1902 [1] 689).  
2) 3,4,3',4'-Tetranitrobiphenyl. Sm. 186° (B. 34, 2179).  
 $C_{12}H_6O_8N_6$  2) isom. Tetranitrozobenzol. Sm. 218° (J. pr. [2] 64, 142).
- $C_{12}H_6O_{10}N_4$  3) 3,5,3',5'-Tetranitro-2,2'-Dioxybiphenyl. Sm. 248—249° (B. 35, 311 C. 1902 [1] 587).
- $C_{12}H_6N_3Cl_4$  1) 2,4,2',4'-Tetrachlorazobenzol. Sm. 161—162° (B. 34, 2856).
- $C_{12}H_7O_2N$  6) Phenazonon. Sm. 216—217° (B. 35, 341 C. 1902 [1] 596).  
7) Oximanhydrid d. Naphtaldehydsäure. Sm. 257° (A. 276, 16; M. 22, 989).
- $C_{12}H_7O_3N$  5) B-I-Oxybenzolazoxindon. Zers. bei 240—250° (B. 35, 2817 C. 1902 [2] 999).  
C 59,7 — H 2,9 — O 19,9 — N 17,4 — M. G. 241.
- $C_{12}H_7O_3N_3$  1) 3-Nitro-9-Nitrosocarbazol. Sm. 166,5° u. Zers. (B. 34, 1678).
- $C_{12}H_7O_4N_3$  3) isom. Dinitrocarbazol. Sm. noch nicht bei 320° (D.R.P. 128853 C. 1902 [1] 608).
- $C_{12}H_7O_4J$  1) p-Jodnaphtalin-1,8-Dicarbonsäure. Sm. 217° (G. 32 [2] 90 C. 1902 [2] 900).  
C 47,8 — H 2,3 — O 26,6 — N 23,2 — M. G. 301.
- $C_{12}H_7O_5N_5$  1) 2-Nitroso-4,6-Dinitro-s-Diphenylhydrazin. Sm. 249° (J. pr. [2] 65, 107 C. 1902 [1] 993).  
C 42,7 — H 2,1 — O 42,7 — N 12,5 — M. G. 337.
- $C_{12}H_7O_5N_3$  1) Oxyessig-1, p-Trinitro-2-Naphtyläthersäure. Sm. 239—240° u. Zers.  $NH_3$ , Na +  $\frac{1}{2}H_2O$ , K +  $H_2O$  (B. 34, 3197). — \*II, 524.
- $C_{12}H_7O_6N_5$  3) 3,5,2',4'-Tetranitro-2-Oxydiphenylamin. Sm. 211° (C. 1900 [2] 610). — \*II, 421.
- $C_{12}H_7NCl_4$  2) isom. Tetrachlordiphenylamin. Sm. 107—108° (C. 1898 [2] 36). — \*II, 156.
- $C_{12}H_7NBr_3$  2) p-Dibromcarbazol. Sm. 170,5° (C. 1901 [2] 588).
- $C_{12}H_7N_1Cl$  1) 6-Chlor-4,5-Naphtisodiazin (6-Chlorisochino-β-Pyridin). Sm. 182 bis 183° (Pikrat (B. 35, 300 C. 1902 [1] 591).
- $C_{12}H_7ON_2$  6) 6-Oxy-4,5-Naphtisodiazin (6-Oxyisochino-β-Pyridin). Sm. 274—276° (2HCl, PtCl<sub>4</sub>), Pikrat (B. 35, 299 C. 1902 [1] 591).
- 7) 5,10-Naphtdiazin-5,10-Oxyd. Sm. 226,5° subl. 240—250° (i. V.) (B. 34, 2446).
- 8) p-Nitrosocarbazol (D.R.P. 134983 C. 1902 [2] 1165).
- $C_{12}H_8O_3N_2$  \*6) 3-Nitrocarbazol. Sm. 208,5° (B. 34, 1679).
- $C_{12}H_8O_3N_4$  5) Verbindung (aus Anilopyrin). Sm. 196° (B. 34, 725).
- $C_{12}H_8O_3Br_2$  3) p-Dibrom-2,2'-Dioxybiphenyl. Sm. 188—189° (B. 35, 306 C. 1902 [1] 587).
- $C_{12}H_8O_3N_2$  3) Benzo-β-Ketopentamethylenazinmethylsäure. Zers. bei 200° (Bl. [3] 25, 718).
- $C_{12}H_8O_4N_2$  \*3) 2,2'-Dinitrobiphenyl. Sm. 128° (125°) (A. 320, 133; B. 34, 2176, 3327; B. 34, 3803 C. 1902 [1] 44; J. pr. [2] 65, 296 C. 1902 [1] 1234).  
\*4) 3,3'-Dinitrobiphenyl. Sm. 200° (B. 34, 2177).  
\*5) 4,4'-Dinitrobiphenyl. Sm. 237° (232°) (B. 34, 2177; A. 320, 134).
- 12) Inn. Anhydrid d. Oxyessig-4-Nitro-1-Amido-2-Naphtyläthersäure. Sm. 290° u. Zers.  $Na_2$  +  $3H_2O$ , K +  $\frac{1}{2}H_2O$  (B. 34, 3202). — \*II, 527.

- $C_{12}H_9O_4N_4$  \*5) 4,4'-Dinitroazobenzol. Sm. 220° (*R.* 20, 120, 143; *J. pr.* [2] 65, 104 *C.* 1902 [1] 992).
- $C_{12}H_9O_4N_6$  C 48,0 — H 2,7 — O 21,3 — N 28,0 — M. G. 300.
- 1) 6-[2,4-Dinitrophenyl]amido-1,2,3-Benzotriazol. Sm. 248—249° (*C.* 1901 [1] 1397).
- $C_{12}H_9O_4Br_8$  1) Diacetat d. 2,3,5,6-Tetrabrom-4-Oxy-1-[ββ-Dibrom-α-Oxyäthyl]-benzol. Sm. 124—125° (*A.* 322, 209 *C.* 1902 [2] 268).
- $C_{12}H_9O_5N_5$  7) 4-Nitro-1-Naphtylmonamid d. Oxalsäure. Sm. 190—195° (D. R. P. 58227). — \*II, 336.
- $C_{12}H_9O_6N_4$  \*2) 3,3'-Dinitroazoxybenzol. Sm. 143° (*R.* 20, 119, 141).
- $C_{12}H_9O_8N_3$  5) 3,3'-Dinitro-2,2'-Dioxybiphenyl. Sm. 189—190° (*B.* 35, 307 *C.* 1902 [1] 587).
- 6) 5,5'-Dinitro-2,2'-Dioxybiphenyl. Sm. 240—250° u. Zers. (*B.* 35, 309 *C.* 1902 [1] 587).
- $C_{12}H_9O_7N_2$  2) 3,5-Dinitro-2,2'-Dioxydiphenyläther? Sm. 153—153,5°. Na, Na<sub>2</sub> + 3H<sub>2</sub>O, Ag (*Am.* 26, 365).
- $C_{12}H_9O_7N_4$  4) 2,4,6-Trinitro-3-Oxydiphenylamin. Sm. 165° (*R.* 21, 261 *C.* 1902 [2] 519).
- 5) 2',4',3-Trinitro-4-Oxydiphenylamin (*C.* 1900 [1] 1055). — \*II, 420.
- $C_{12}H_9O_8N_4$  C 42,8 — H 2,4 — O 38,1 — N 16,7 — M. G. 336.
- 1) Amid d. Oxyessig-1,β,β-Trinitro-2-Naphtyläthersäure. Sm. 221 bis 222° u. Zers. (*B.* 34, 3198). — \*II, 524.
- $C_{12}H_9NBr$  \*1) 3-Bromcarbazol. Sm. 179,5° (*C.* 1901 [2] 588).
- $C_{12}H_9N_2Cl_2$  \*1) 3,3'-Dichlorazobenzol. Sm. 101° (*A.* 320, 130).
- \*2) 4,4'-Dichlorazobenzol. Sm. 183—184° (*A.* 320, 130).
- 2) 2,2'-Dichlorazobenzol. Sm. 137° (*A.* 320, 129).
- $C_{12}H_9N_2Br_2$  \*3) 4,4'-Dibromazobenzol. Sm. 205° (*A.* 320, 130).
- $C_{12}H_9N_3Cl$  2) Carbazol-3-Diazochlorid. + HgCl<sub>2</sub> (*B.* 34, 1680).
- $C_{12}H_9ON$  \*10) 4-Benzoylpyridin. Sm. 72°; Sd. 315°<sub>732</sub>. (2HCl, PtCl<sub>4</sub>) (*C.* 1902 [1] 206).
- 12) 2-Benzoylpyridin. Sd. 317°<sub>733</sub> (2HCl, PtCl<sub>4</sub>), Pikrat (*C.* 1902 [1] 206).
- 13) 3-Oxycarbazol. Sm. 260—261° (*B.* 34, 1683).
- $C_{12}H_9O_2N$  \*2) 2-Nitrobiphenyl. Sm. 137° (*J. pr.* [2] 63, 448).
- \*4) 4-Nitrobiphenyl. Sm. 113° (*J. pr.* [2] 63, 448).
- 15) Phenoxazoniumhydrat. Pikrat (*B.* 34, 1624).
- 16) Inn. Anhydrid d. Oxyessig-1-Amido-2-Naphtyläthersäure. Sm. 217° (*B.* 34, 3199). — \*II, 525.
- $C_{12}H_9O_2N_3$  \*4) 4-Nitroazobenzol. Sm. 145,5—146° (*J. pr.* [2] 65, 105 Anm. *C.* 1902 [1] 992).
- 10) 3-Oxy-5-Keto-1-[1-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 233 bis 234° (*B.* 34, 2324).
- 11) 3-Oxy-5-Keto-1-[2-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 287° (*B.* 34, 2326).
- 12) Anhydrid d. 3,5-Diamido-9-Oxyphenoxazoniumhydroxyd (*A.* 322, 30 *C.* 1902 [2] 222).
- 13) Acetat d. Verbindung C<sub>10</sub>H<sub>7</sub>ON<sub>3</sub>. Sm. 109° (*C.* 1901 [1] 398).
- $C_{12}H_9O_2Br_5$  1) Acetat d. αα-Dibrom-β-[3,5,6-Tribrom-2-Oxy-4-Methylphenyl]-propen. Sm. 104° (*B.* 34, 48).
- $C_{12}H_9O_2As$  1) 1,2-Phenylenester d. Phenylarsenigesäure. Sm. 83°; Sd. 197—198°<sub>15</sub> (*A.* 320, 290 *C.* 1902 [1] 919).
- $C_{12}H_9O_3N$  24) 4-Nitro-β-Oxybiphenyl. Sm. 120° (*B.* 28, 526). — \*II, 539.
- 25) 7,8-Aethylenylderivat d. 8-Amido-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 202—203° (*B.* 34, 672).
- $C_{12}H_9O_5Cl$  4) Chlorid d. α-[3,4-Dioxyphenyl]-αγ-Butadien-3,4-Methylenäther-δ-Carbonsäure. Sm. 180° (*M.* 22, 800).
- $C_{12}H_9O_4N$  \*16) Verbindung (aus Brenztraubensäure u. Benzoylamidoessigsäure). Sm. 157° (*B.* 35, 2484 *C.* 1902 [2] 453).
- 18) 8-Acetylamido-4-Oxy-1,2-Naphtochinon. subl. bei 200° u. Zers. (*B.* 34, 1228).
- 19) N-Benzozat d. 2-Oximidooxymethylfuran. Sm. 134° (*Soc.* 79, 848).
- 20) 1-Phenylpyrrol-2,5-Dicarbonsäure. Zers. bei 240°. Ag (*C.* 1902 [1] 1298; *B.* 35, 2533 *C.* 1902 [2] 452).
- 21) Verbindung + H<sub>2</sub>O (aus d. Verb. C<sub>12</sub>H<sub>10</sub>O<sub>3</sub>N<sub>2</sub>). Sm. 237—238° K + H<sub>2</sub>O (*A.* 319, 127).

- $C_{12}H_9O_4Cl$  4) Acetat d. 3-Chlor-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 161° (B. 34, 358).
- 5) Aethylester d. 2-Chlor-1,3-Diketo-2,3-Dihydroinden-2-Carbonsäure. Sm. 72—74° (B. 34, 2148).
- $C_{12}H_9O_4Br$  1) Aethylester d. 2-Brom-1,3-Diketo-2,3-Dihydroinden-2-Carbonsäure. Sm. 72—75° (B. 34, 2146).
- $C_{12}H_9O_4Br_5$  1) Diacetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 131—132° (A 322, 207 C. 1902 [2] 268).
- $C_{12}H_9O_5N$  5) Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 192°.  $NH_4Na + H_2O$ ,  $K + \frac{1}{2}H_2O$  (B. 34, 3195; D.R.P. 58614). — \*II, 524.
- $C_{12}H_9O_5Br$  2) Aethylester d. 8-Brom-7-Oxy-1,2-Benzpyron-4-Carbonsäure. Sm. 203° (B. 34, 385).
- $C_{12}H_9O_6N$  4) Acetat d. 8-Nitro-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 165—166° (B. 34, 672).
- $C_{12}H_9O_6N_3$  3) 4,6-Dinitro-3,4'-Dioxydiphenylamin. Sm. 185—186° u. Zers. (D.R.P. 135635 C. 1902 [2] 1287).
- $C_{12}H_9O_6N_5$  \*2) 2,4,6-Trinitro-s-Diphenylhydrazin. Sm. 175—181° (J. pr. [2] 65, 106 C. 1902 [1] 993).
- $C_{12}H_9O_6Br_3$  2) Triacetat d. 3,5,6-Tribrom-1,2,4-Trioxymbenzol. Sm. 189° (B. 34, 2840).
- $C_{12}H_9NJ_2$  1) Dijoddiphenylamin. Sm. 129° (D.R.P. 81928). — \*II, 156.
- $C_{12}H_9N_3Cl_2$  \*2) 4,4'-Dichlordiazoamidobenzol (B. 34, 2752).
- 3) 2,2'-Dichlordiazoamidobenzol. Sm. 90° (C. 1902 [2] 938).
- 4) 2,3'-Dichlor-4-Amidoazobenzol. Sm. 127° (C. 1902 [2] 938).
- 5) 2,3'-Dichlor-4-Amidoazobenzol? Sm. 113° (C. 1902 [2] 938).
- $C_{12}H_9Cl_2P$  1) 4-Biphenyldichlorphosphin. Sm. 5° (A. 315, 51).
- $C_{12}H_{10}ON_2$  \*5) 4-Oxyazobenzol. Sm. 152° (J. pr. [2] 65, 422 C. 1902 [2] 36).
- \*12) Harmol. Sm. 321° (C. 1901 [1] 958).
- \*18) 2-Oxyazobenzol. Sm. 82,5—83° (B. 35, 1610 C. 1902 [1] 1325; B. 35, 1618 C. 1902 [1] 1326).
- 20) 4,4'-Diamidobiphenylenoxyd. Sm. 150—152° (D.R.P. 48709). — \*II, 602.
- 21) 2-[ $\alpha$ -Oximidobenzyl]pyridin. Sm. 150—152° (C. 1902 [1] 206).
- 22) isom. 2-[ $\alpha$ -Oximidobenzyl]pyridin. Sm. 165—167° (C. 1902 [1] 206).
- $C_{12}H_{10}OSi$  1) Diphenylsiliciumoxyd. Sm. 109° (Soc. 79, 455).
- $C_{12}H_{10}O_2N_2$  \*11) 2,4-Dioxyazobenzol (Am. 26, 159).
- \*16) 4,4'-Dioxyazobenzol. Sm. 204° u. Zers. (A. 320, 131).
- \*24) 2-Oxyazoxybenzol. Sm. 75,5—76° (B. 35, 1611 C. 1902 [1] 1325; B. 35, 1617 C. 1902 [1] 1326).
- \*25) isom. 2-Oxyazoxybenzol. Sm. 108—108,5° (B. 35, 1611 C. 1902 [1] 1325; B. 35, 1620 C. 1902 [1] 1326).
- \*26) 4-Oxyazoxybenzol. Sm. 156,5° (B. 35, 1611 C. 1902 [1] 1325; B. 35, 1624 C. 1902 [1] 1326).
- 27) 3,3'-Dioxyazobenzol. Sm. 204° (C. 1902 [2] 1182).
- 28) 1,2-Phenyläther d. 3,5-Diamido-1,2-Dioxybenzol. Sm. 198—200° u. Zers. (2HCl, PtCl<sub>4</sub>) (Am. 26, 362).
- 29) Benzylidenhydrazid d. Furan-2-Carbonsäure. Sm. 219° u. Zers. (J. pr. [2] 65, 30 C. 1902 [1] 460).
- $C_{12}H_{10}O_2N_4$  \*7) 4-Nitro-4'-Amidoazobenzol. Sm. 210—212° (D.R.P. 131860 C. 1902 [2] 83).
- 13) 4-Amido-3-Oxy-5-Keto-1-[1-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 201° (B. 34, 2324).
- 14) 4-Amido-3-Oxy-5-Keto-1-[2-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 265° (B. 34, 2325).
- 15) 2,6-Diketo-9-Benzylpurin (9-Benzylxanthin). Sm. 342° u. Zers. (C. 1901 [1] 1220).
- 16) Verbindung (aus Anilopyrin). Sm. 164° (B. 34, 726).
- $C_{12}H_{10}O_2N_6$  C 53,3 — H 3,7 — O 11,8 — N 31,1 — M. G. 270.
- 1) 3,4-Di[2-Methyl-4-Pyrimidyl]-1,2,3,6-Dioxydiazin. Sm. 134—135° (2HCl, PtCl<sub>4</sub>) (B. 35, 1574 C. 1902 [1] 1236).
- $C_{12}H_{10}O_2Br_6$  1) Acetat d. Verbindung  $C_{10}H_8OBr_6$ . Sm. 182° u. Zers. (B. 34, 46).
- $C_{12}H_{10}O_2S_2$  \*3) Phenylester d. Benzolthiolsulfonsäure. Sm. 45° (Am. 25, 196).
- $C_{12}H_{10}O_2Hg$  \*1) Acetat d. Quecksilber-1-Naphtyloxyhydrat. Sm. 154° (C. 1901 [1] 454; B. 35, 2035 C. 1902 [2] 113).

- $C_{12}H_{10}O_2Hg$  3) Quecksilberdi[2-Oxyphenyl] (C. 1901 [1] 451; B. 35, 2855 C. 1902 [2] 1037).
- $C_{12}H_{10}O_3N_2$  \*16) 3-Keto-4-Methyl-2-Phenyl-2,3-Dihydro-1,2-Diazin-6-Carbonsäure. Sm. 213—214° (K. (A. 317, 13; 319, 125).
- 31) Oxyamid d. 1-Naphtyloxaminsäure. Sm. 172° (Soc. 79, 844).
- 32) Oxyamid d. 2-Naphtyloxaminsäure. Sm. 174° (Soc. 79, 846).
- 33) Benzoylhydrazid d. Furan-2-Carbonsäure. Sm. 226° (J. pr. [2] 65, 29 C. 1902 [1] 460).
- 34) Verbindung (aus d.  $\alpha\gamma$ -Lakton d.  $\alpha$ -Phenylhydrazon- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure). Sm. 280° u. Zers. (A. 319, 127).
- $C_{12}H_{10}O_3S$  6) 2-Oxydiphenylsulfon. Sm. 82° (B. 34, 1153).
- $C_{12}H_{10}O_3Hg_2$  1) Anhydrid d. 4-Oxyphenylquecksilberoxydhydrat (C. 1901 [1] 452; B. 35, 2854 C. 1902 [2] 1037).
- $C_{12}H_{10}O_4N_2$  \*8) Aethylester d.  $\alpha$ -Cyan- $\beta$ -[3-Nitrophenyl]akrylsäure. Sm. 135° (G. 31 [1] 273).
- 15) 1,4-Benzdiazin-2,3-Di[Methylcarbonsäure].  $Na_2$  (Bl. [3] 25, 718).
- 16) Amid d. Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 189° (B. 34, 3196). — \*II, 524.
- $C_{12}H_{10}O_4N_4$  \*8) 4,4'-Dinitro-s-Diphenylhydrazin. Sm. 237—238° u. Zers. (J. pr. [2] 65, 105 C. 1902 [1] 992; C. r. 134, 1219 C. 1902 [2] 41).
- $C_{12}H_{10}O_4Br_4$  \*3) Benzol-1,4-Di[ $\alpha\beta$ -Dibromäthyl- $\beta$ -Carbonsäure]. Sm. 251° (B. 34, 2785).
- 5) Diacetat d. 3,5-Dibrom-4-Oxy-1-[ $\beta\beta$ -Dibrom- $\alpha$ -Oxyäthyl]benzol. Sm. 103° (A. 322, 231 C. 1902 [2] 277).
- 6) Diacetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 110—111° (A. 322, 203 C. 1902 [2] 267).
- $C_{12}H_{10}O_4S$  \*3) 3,4-Dioxydiphenylsulfon. Sm. 153° (Am. 26, 32).
- 8) 1-Naphtylsulfonessigsäure. Sm. 168° (Na (J. pr. [2] 66, 143 C. 1902 [2] 797).
- 9) 2-Naphtylsulfonessigsäure +  $H_2O$ . Sm. 90° (J. pr. [2] 66, 144 C. 1902 [2] 797).
- $C_{12}H_{10}O_6N_2$  \*2) Aethyläther d. 4,5-Dinitro-1-Oxynaphtalin. Sm. 182° (B. 35, 2808 C. 1902 [2] 1119).
- 11)  $\alpha\beta$ -Lakton d.  $\alpha$ -Phenylhydrazon- $\beta$ -Oxypropan- $\alpha$ -Ketocarbonsäure- $\beta$ -Carbonsäure. Sm. 188° u. Zers. (A. 317, 15).
- 12) Aethylester d. 2-Nitrobenzoylcyanessigsäure. Sm. 89° (Bl. [3] 25, 695).
- 13) Aethylester d. 3-Nitrobenzoylcyanessigsäure. Sm. 110° (Bl. [3] 25, 695).
- 14) Aethylester d. 4-Nitrobenzoylcyanessigsäure. Sm. 158° (Bl. [3] 25, 695).
- $C_{12}H_{10}O_6N_4$  C 49,7 — H 3,4 — O 27,6 — N 19,3 — M. G. 290.
- 1) 2,4'-Dinitro-3-Amido-4-Oxydiphenylamin (D.R.P. 107971 C. 1900 [1] 1055). — \*II, 413.
- $C_{12}H_{10}O_6S$  1) Naphtalin-2-Oxyessigsäure-6-Sulfonsäure.  $Na_2$  (D.R.P. 58614). — \*II, 532.
- $C_{12}H_{10}O_7N_2$  2)  $\alpha\gamma\epsilon$ -Tri keto- $\alpha$ -[3,5-Dinitrophenyl]hexan (2,4-Dinitrobenzoylacetylacetone). Sm. 153° (J. pr. [2] 65, 294 C. 1902 [1] 1217).
- $C_{12}H_{10}O_8S_2$  4) 2,2'-Dioxyphenyl-5,5'-Disulfonsäure.  $Pb + 5H_2O$  (B. 35, 312 C. 1902 [1] 587).
- $C_{12}H_{10}O_{14}S_4$  2) 2,2'-Dioxyphenyl-3,3',5,5'-Tetrasulfonsäure.  $Pb_3 + 10H_2O$  (B. 35, 313 C. 1902 [1] 587).
- $C_{12}H_{10}N_2Cl_2$  6) 5,4'-Dichlor-2-Amidodiphenylamin. Sm. 91° (B. 35, 955 C. 1902 [1] 805).
- 7) s-Di[2-Chlorphenyl]hydrazin. Sm. 87° (A. 320, 130).
- $C_{12}H_{10}ClAs$  \*1) Diphenylchlorarsin. Sd. 333° (A. 321, 141 C. 1902 [2] 42).
- $C_{12}H_{10}BrB$  1) Diphenylborbromid. Sm. 24—25°; Sd. 150—160° (A. 315, 30).
- $C_{12}H_{11}ON$  \*18) 1-Naphtylamid d. Essigsäure. Sm. 159° (B. 35, 111 C. 1902 [1] 414).
- \*19) 2-Naphtylamid d. Essigsäure. Sm. 134—136° (B. 35, 112 C. 1902 [1] 414).
- $C_{12}H_{11}ON_3$  \*10) Benzylidenhydrazid d. Pyrrol-2-Carbonsäure. Sm. 164—165° (G. 32 [1] 248 C. 1902 [1] 1229).
- 11) s-Phenyl-2-Pyridylharnstoff. Sm. 180° (Ar. 240, 351 C. 1902 [2] 647).
- $C_{12}H_{11}OJ$  \*1) Diphenyljodoniumoxydhydrat. Jodid, Bromcamphersulfonat +  $1\frac{1}{4}H_2O$  (Soc. 81, 1359 C. 1902 [2] 1197).

- $C_{12}H_{11}OB$  \*1) Diphenylborsäure (A. 315, 37).  
 $C_{12}H_{11}O_2N$  \*42) Aethylester d.  $\alpha$ -Cyan- $\beta$ -Phenylakrylsäure. Sm. 51°; Sd. 350° u. Zers. (G. 31 [1] 267).  
 57) 8-Acetylamido-1-Oxynaphtalin. Sm. 138° (M. 23, 517 C. 1902 [2] 743).  
 58) 2-Keto-3-Acetyl-4-Methyl-1,2-Dihydrochinolin. Sm. 267° (Ar. 240, 140 C. 1902 [1] 140).  
 59)  $\alpha$ -Cyan- $\beta$ -[3-Methylphenyl]propen- $\gamma$ -Carbonsäure (C. 1902 [2] 699).  
 60) 2-Methyl-4-Phenylpyrrol-3-Carbonsäure. Sm. 115° u. Zers. (B. 35, 3004 C. 1902 [2] 1120).  
 61) Methylester d. 1-Phenylpyrrol-2-Carbonsäure. Sm. 88°; Sd. 282° (C. 1902 [1] 1298; B. 35, 2532 C. 1902 [2] 452).  
 62) Aethylester d. isom.  $\alpha$ -Cyan- $\beta$ -Phenylakrylsäure. Fl. (G. 31 [1] 268).  
 $C_{12}H_{11}O_2N_3$  20) 2-Nitro-2'-Amidodiphenylamin. Sm. 103° (B. 34, 3091).  
 21) 2-Nitro-3'-Amidodiphenylamin. Sm. 112° (B. 34, 3090).  
 22) 1-Naphtylamidofornylharnstoff (1-Naphtylbiuret). Sm. 210–211° (Soc. 79, 845).  
 23) 2-Naphtylamidofornylharnstoff (2-Naphtylbiuret). Sm. 203° u. Zers. (Soc. 79, 846).  
 $C_{12}H_{11}O_2P$  2) 4-Biphenylphosphinige Säure (A. 315, 54).  
 $C_{12}H_{11}O_2As$  \*1) Diphenylarsinsäure. Nitrat (A. 321, 150 C. 1902 [2] 43).  
 $C_{12}H_{11}O_3N$  \*42) Acetat d. 3-Oxy-1-Acetylinдол. Sm. 82° (B. 34, 1856; D.R.P. 133 146 C. 1902 [2] 491).  
 44) Oxyessig-1-Amido-2-Naphtyläthersäure (D.R.P. 58 614). — \*II, 525.  
 45) Aethylester d. 2-Formylamidophenylpropionsäure. Sm. 83° (H. 33, 407; B. 34, 2713).  
 46) Phenylamidoforniat d. 5-Oxy-1-Keto-2,3-Dihydro-R-Penten. Sm. 122° (B. 35, 3210 C. 1902 [2] 1250).  
 $C_{12}H_{11}O_3N_3$  9) 2- oder 4-Nitro-4- oder 2-Amido-4'-Oxydiphenylamin. Sm. 204 bis 205° (D.R.P. 128 087 C. 1902 [1] 447).  
 10) p-Nitro-p-Amido-4-Oxydiphenylamin. Sm. 196–197° (D.R.P. 135 335 C. 1902 [2] 1167).  
 11) 2-[2-Nitro-4-Methylphenylhydrazon]methylfuran. Sm. 165–166° (Soc. 79, 1143).  
 12) 6-Oxy-4,5-Dimethyl-2-[4-Nitrophenyl]-1,3-Diazin. Sm. noch nicht bei 305° (B. 34, 1985).  
 $C_{12}H_{11}O_3Cl$  1) Lakton d.  $\epsilon$ -Chlor- $\delta$ -Oxy- $\alpha$ -Keto- $\alpha$ -Phenylpentan- $\beta$ -Carbonsäure. Sm. 105–106° (C. 1901 [2] 268).  
 $C_{12}H_{11}O_3Br$  3) Lakton d.  $\epsilon$ -Brom- $\delta$ -Oxy- $\alpha$ -Keto- $\alpha$ -Phenylpentan- $\beta$ -Carbonsäure. Sm. 92–93° (C. 1901 [2] 268).  
 $C_{12}H_{11}O_3Br_5$  1) 4-Acetat d. 2,5,6-Tribrom-3,4-Dioxy-1-[ $\beta$ - $\gamma$ -Dibrompropyl]benzol-3-Methyläther. Sm. 137° (B. 28, 2086). — \*II, 586.  
 $C_{12}H_{11}O_3P$  2) 4-Biphenylphosphinsäure (A. 315, 54).  
 $C_{12}H_{11}O_4N$  8) 8-Acetylamido-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 290° (B. 34, 672).  
 17)  $\gamma$ -Phenylimido- $\beta$ -Ketobutan- $\alpha$ -Ketocarbonensäure. Zers. bei 132 bis 133° (C. r. 134, 1064 C. 1902 [1] 1321).  
 18) 3-Oxy-1-Propionylindol-2-Carbonsäure. Sm. 163° u. Zers. (B. 34, 1856; D.R.P. 131 400 C. 1902 [1] 1344).  
 19) Methylester d. 3-Oxy-1-Acetylinдол-2-Carbonsäure. Sm. 117° (D.R.P. 126 962 C. 1902 [1] 82).  
 20) Methylester d. 3-Acetoxyindol-2-Carbonsäure. Sm. 143° (B. 34, 1854; D.R.P. 131 400 C. 1902 [1] 1343).  
 21) Nitril d. 4-Acetoxy-1-Acetoxydimethylbenzol-3-Carbonsäure. Sm. 57–58° (B. 35, 128 C. 1902 [1] 465).  
 $C_{12}H_{11}O_4N_3$  6) 4,5-Dinitro-1-Dimethylamidonaphtalin. Sm. 176° (B. 35, 2807 C. 1902 [2] 1118).  
 $C_{12}H_{11}O_4N_5$  2) 3-Nitrobenzylidenhydrazid d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonensäure. Sm. 145° u. Zers. (J. pr. [2] 64, 346).  
 $C_{12}H_{11}O_4Cl$  1) Dimethyläther d. 3-Chlor-7,8-Dioxy-4-Methyl-1,2-Benzpyron. Sm. 172–173° (B. 34, 360).  
 $C_{12}H_{11}O_4Cl_3$  1) Diäthylester d. 3,4,6-Trichlorbenzol-1,2-Dicarbonensäure. Sm. 60° (B. 34, 2108).  
 $C_{12}H_{11}O_4Br$  6) Dimethyläther d. 4-Brom-5,7-Dioxy-3-Methyl-1,2-Benzpyron. Sm. 260° (Soc. 81, 512 C. 1902 [1] 1334).



- $C_{12}H_{11}O_4Br$  7)  $\gamma$ -Lakton d.  $\beta$ -Brom- $\alpha$ -Acetoxy- $\gamma$ -Oxy- $\gamma$ -Phenylbuttersäure. Sm. 64,5° (A. 319, 202 C. 1902 [1] 107).
- $C_{12}H_{11}O_4Br_3$  3) Diacetat d. 3,5-Dibrom-4-Oxy-1-[ $\beta$ -Brom- $\alpha$ -Oxyäthyl]benzol. Sm. 103° (A. 322, 233 C. 1902 [2] 278).
- 4) Diacetat d. 2,3,5-Tribrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 71° (A. 322, 202 C. 1902 [2] 267).
- $C_{12}H_{11}O_5N$  \*2) Säure (aus d. Verb.  $C_{12}H_9O_5N$ ) (B. 35, 2485 C. 1902 [2] 453).
- 10) 4-Oximido-7-Methoxyl-1,4-Benzpyran-3-Methylcarbonsäure (Oxim d. Dehydrobrasilsäure). Sm. 175—180° u. Zers. (Soc. 81, 231 C. 1902 [1] 354, 816).
- $C_{12}H_{11}O_5Br$  2) Methylester d. 4- oder 6-Brom-3,5-Dimethoxylbenzofuran-1-Carbonsäure. Sm. 181° (Soc. 81, 509 C. 1902 [1] 118, 1333).
- $C_{12}H_{11}O_5Br_3$  \*1) 1,3-Diacetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Oxymethyl]benzol. Sm. 170° (A. 320, 227 C. 1902 [1] 656).
- $C_{12}H_{11}O_6N$  5) Aethylester d.  $\beta$ -[4-Nitrobenzoxyl]akrylsäure. Sm. 87—88° (A. 316, 38).
- 6) Aethylester d. isom.  $\beta$ -[4-Nitrobenzoxyl]akrylsäure. Sm. 92—93° (A. 316, 38).
- $C_{12}H_{11}O_6N$  3) Triacetat d. p-Nitro-1,2,4-Trioxybenzol. Sm. 107—108° (B. 34, 2838).
- $C_{12}H_{11}NS$  6) 2-[4-Methylphenylimido]methylthiophen. Sm. 62°. HCl (B. 34, 844).
- $C_{12}H_{11}N_2Cl$  7) 4'-Chlor-2-Amidodiphenylamin. Sm. 119° (B. 35, 957 C. 1902 [1] 805).
- $C_{12}H_{11}N_2S$  \*3) s-Phenyl-2-Pyridylthioharnstoff. Sm. 171° (Ar. 240, 351 C. 1902 [2] 647).
- 4) s-Phenyl-3-Pyridylthioharnstoff. Sm. 164° (Ar. 240, 356 C. 1902 [2] 648).
- 5) s-Phenyl-4-Pyridylthioharnstoff. Sm. 148° (Ar. 240, 364 C. 1902 [2] 649).
- 6) 4,6-Diamidothiodiphenylamin (B. 32, 2607). — \*II, 477.
- $C_{12}H_{12}ON_2$  \*27) Harmalol. Zers. bei 212° (C. 1901 [1] 958).
- 34) Methyläther d. 2-[2-Oxyphenyl]amidopyridin. Sm. 63—64° (B. 35, 3675 C. 1902 [2] 1473).
- 35) Methyläther d. 2-[4-Oxyphenyl]amidopyridin. Sm. 85° (2HCl, PtCl<sub>4</sub>) (HCl, AuCl<sub>3</sub>) (B. 35, 3674 C. 1902 [2] 1473).
- 36) Methyläther d. 6-Oxy-5-Methyl-3-Phenyl-1,2-Diazin (M. d. Oxy-methylphenylpyridazin). Sm. 60—61° (B. 34, 4233 C. 1902 [1] 213).
- 37) Methyläther d. 6-Oxy-3-[4-Methylphenyl]-1,2-Diazin. Sm. 114 bis 115° (2HCl, PtCl<sub>4</sub>) (B. 34, 3831 C. 1902 [1] 51).
- 38) Phenyläther d. 2-Oxy-4,6-Dimethyl-1,3-Diazin. Sm. 81°; Sd. 305 bis 312°. HCl, + 2HgCl<sub>2</sub> (B. 34, 3960 C. 1902 [1] 127).
- 39) 3-Keto-2-Methyl-6-[4-Methylphenyl]-2,3-Dihydro-1,2-Diazin (Methyl-p-Tolylpyridazon). Sm. 125° (B. 34, 3830 C. 1902 [1] 51).
- 40) Verbindung (aus 4-Keto-1-Phenyl-R-Pentamethylen-2-Carbonsäure). Sm. 208° u. Zers. (A. 315, 243).
- $C_{12}H_{12}ON_4$  5)  $\alpha$ -Furalamido- $\alpha$ -Phenylguanidin. (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, Pikrat (G. 31 [1] 528).
- 6) 2-Phenylnitrosamido-4,6-Dimethyl-1,3-Diazin. Sm. 130—131° (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 3961 C. 1902 [1] 127).
- $C_{12}H_{12}O_2N_3$  41) 4-Nitro-1-Aethylamidonaphtalin. Sm. 176—177° (C. 1901 [1] 237).
- 42) 2-Nitroso-5-Dimethylamido-1-Oxynaphtalin (oder 5-Dimethylamido-2-Oximido-1-Keto-1,2-Dihydronaphtalin) (B. 35, 980 C. 1902 [1] 877).
- 43) 3,3'-Diamido-2,2'-Dioxybiphenyl. Sm. 227° u. Zers. 2HCl + 2H<sub>2</sub>O (B. 35, 308 C. 1902 [1] 587).
- 44) 5,5'-Diamido-2,2'-Dioxybiphenyl. Sm. 246° (B. 35, 310 C. 1902 [1] 587).
- 45) 2,5-Diketo-4-Isopropyliden-1-Phenyltetrahydroimidazol. Sm. 225 bis 226° (C. 1901 [1] 218; Bl. [3] 25, 916). — \*II, 190.
- 46) 2,4-Diketo-3-Allyl-1-Phenyltetrahydroimidazol. Sm. 117—118° (J. pr. [2] 66, 236 C. 1902 [2] 1122).
- 47) Anhydrid d. 1-Tetrahydropyrrol-1-Carbonsäurephenylamid-2-Carbonsäure. Sm. 144° (H. 33, 168).
- 48) Anhydrid d. 1-Tetrahydropyrrol-1-Carbonsäurephenylamid-2-Carbonsäure. Sm. 118° (B. 34, 460).
- 49) Aethylester d.  $\alpha$ -Cyan- $\beta$ -Phenylamidoakrylsäure. Sm. 105° (Bl. [3] 25, 44; B. 35, 2510 C. 1902 [2] 439).

- $C_{12}H_{12}O_2N_2$  50) Aethylester d. 1-Phenylpyrazol-4-Carbonsäure. Sm. 96—97° (A. 316, 36).
- 51) Aethylester d. 5-Phenylpyrazol-3-Carbonsäure. Sm. 140° (B. 35, 36 C. 1902 [1] 424).
- $C_{12}H_{12}O_2N_4$  6) Benzylidenhydrazid d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. oberh. 190° u. Zers. (J. pr. [2] 64, 345).
- $C_{12}H_{12}O_3N_3$  24) Methyl ester d. 2-Acetylcyanmethylamidobenzol-1-Carbonsäure. Sm. 81—83° (J. pr. [2] 63, 401; B. 35, 1686 C. 1902 [1] 1362).
- $C_{12}H_{12}O_3N_4$  4) 2-Oxybenzylidenhydrazid d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 200° u. Zers. (J. pr. [2] 64, 346).
- $C_{12}H_{12}O_3S$  7)  $\beta$ -[1-Naphtyl]sulfon- $\alpha$ -Oxyäthan. Fl. (J. pr. [2] 66, 138 C. 1902 [2] 796).
- 8)  $\beta$ -[2-Naphtyl]sulfon- $\alpha$ -Oxyäthan. Sm. 88—90° (J. pr. [2] 66, 139 C. 1902 [2] 796).
- $C_{12}H_{12}O_4N_2$  16)  $\alpha\beta$ -Di[5-Oximidomethyl-2-Furanyl]äthan. Sm. 182° (Soc. 79, 814).
- 17)  $\gamma$ -Phthalylamido- $\alpha$ -Amidobuttersäure. Sm. 197° u. Zers. (B. 34, 2903).
- 18)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Phenylhydrazon- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure + 2H<sub>2</sub>O. Sm. 197—198° u. Zers. (191—192°). +  $\frac{1}{2}C_2H_6O$  (A. 317, 12; 319, 125; R. 20, 94).
- 19)  $\alpha\beta$ -Imid d.  $\beta$ -Phenylamidopropan- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 57 bis 100°. Na<sub>2</sub>, (Ag + AgNO<sub>3</sub>) (B. 35, 2063 C. 1902 [2] 207).
- $C_{12}H_{12}O_4Cl_2$  5) Benzol-1,4-Di[ $\beta$ -Chloräthyl- $\beta$ -Carbonsäure]. Sm. 165° (B. 34, 2787).
- $C_{12}H_{12}O_4Br_2$  \*6)  $\beta\gamma$ -Dibrom- $\alpha$ -Acetoxyl- $\gamma$ -Phenylbuttersäure. Sm. 207° (A. 319, 208).
- 7) Diäthylester d. 4,5-Dibrombenzol-1,2-Dicarbonsäure. Sm. 63 bis 65° (B. 34, 2743).
- 8) Diacetat d. 3,5-Dibrom-4-Oxy-1-[ $\alpha$ -Oxyäthyl]benzol. Sm. 55—56° (A. 322, 237 C. 1902 [2] 278).
- 9) Diacetat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol. Sm. 212 bis 213° (B. 35, 438 C. 1902 [1] 641).
- $C_{12}H_{12}O_4S$  \*2) 1-Oxynaphtalinäthyläther-4-Sulfonsäure + 2H<sub>2</sub>O. Zers. bei 103° NH<sub>4</sub>, Na + 5H<sub>2</sub>O, K + H<sub>2</sub>O, Ba + H<sub>2</sub>O, Sr + 2H<sub>2</sub>O (B. 34, 3176).
- 9) 2-Oxynaphtalinäthyläther-7-Sulfonsäure (B. 29 [2] 665). — \*II, 532.
- $C_{12}H_{12}O_4S_2$  1) 3,4-Dithiocarbonyl-1,1,2,2-Tetraacetyl-R-Tetramethylen. Sm. 230° (B. 34, 1050).
- $C_{12}H_{12}O_5N_2$  4) Methyl ester d. 7-Nitro-2-Keto-1,2,3,4-Tetrahydrochinolin-4-Methylcarbonsäure. Sm. 125° (B. 35, 2077 C. 1902 [2] 206).
- $C_{12}H_{12}O_5Br_2$  3)  $\alpha$ -[3,6-Dibrom-4-Oxy-2,5-Dimethylphenyl]äthan- $\beta\beta$ -Dicarbonsäure. Zers. bei 175° (B. 34, 4290 C. 1902 [1] 310).
- $C_{12}H_{12}N_2Hg$  2) Di[Phenylamido]quecksilber (Merkurioanilin) (G. 22, [1] 378; 27 [1] 567; 28 [2] 434). — \*II, 139.
- $C_{12}H_{13}N_2Cl$  1) 5-Chlor-2,4'-Diamidodiphenylamin (B. 34, 1103).
- $C_{12}H_{13}ON$  33) 5-Dimethylamido-1-Oxynaphtalin. Sm. 110°. HCl (B. 35, 979 C. 1902 [1] 876).
- 34) 1-Dimethylamido-2-Oxynaphtalin. Sm. 112°. (D.R.P. 50142). — \*II, 535.
- 35) 1-Benzoyl-1,2,3,6-Tetrahydropyridin. Fl. (B. 34, 2762).
- 36) 2-Keto-6-Methyl-4-Phenyl-1,2,3,4-Tetrahydropyridin. Sm. 271 bis 273° (B. 35, 2177 C. 1902 [2] 374).
- 37) 4-Oxy-2-Isopropylehinolin. Sm. 196° (C. 1901 [2] 1228).
- 38) Äthyläther d. 3-Oxy-2-Methylehinolin. Sm. 69—70° (B. 35, 2558 C. 1902 [2] 600).
- 39) 2-Keto-3,3,4-Trimethyl-2,3-Dihydrochinolin. Sm. 143—144° (C. 1901 [2] 1228).
- 40) Phenylamid d.  $\alpha\gamma$ -Pentadien- $\alpha$ -Carbonsäure. Sm. 153° (B. 34, 2222).
- $C_{12}H_{13}ON_3$  5) 6-Oxy-4,5-Dimethyl-2-[4-Amidophenyl]-1,3-Diazin. Sm. 287° u. Zers. (2HCl, PtCl<sub>4</sub>) (B. 34, 1985).
- $C_{12}H_{13}ON_5$  2) 2-Methyl-3-[ $\alpha$ -Semicarbazonäthyl]-1,4-Benzdiazin. Sm. 267—268° (B. 35, 3312 C. 1902 [2] 1109).
- $C_{12}H_{13}O_2N$  \*1)  $\alpha$ -Phenylamido- $\gamma$ -Keto- $\beta$ -Aethanoyl- $\alpha$ -Buten. Sm. 90° (B. 35, 2505 C. 1902 [2] 438).
- $C_{12}H_{13}O_2N_3$  16) Aethylester d.  $\alpha$ -Cyan- $\alpha$ -[4-Methylamidophenyl]imidoessigsäure. Sm. 136° (B. 34, 120).

- $C_{12}H_{13}O_2N_3$  17) Aethylester d. 5-Methyl-1-Phenyl-1,2,3-Triazol-4-Carbonsäure. Sm. 60° (*B.* 35, 1033 *C.* 1902 [1] 878).  
 18) Imid d. 2,3-Dicyan-1-Methyl-1-Butyl-R-Trimethylen-2,3-Dicarbon-säure. Sm. 188—189° (*Ag.* (*C.* 1901 [1] 579).  
 19) Imid d. 2,3-Dicyan-1-Aethyl-1-Propyl-R-Trimethylen-2,3-Dicarbon-säure. Sm. 186—186,5° (*C.* 1901 [1] 580).  
 20) Aethylimid d. 2,3-Dicyan-1-Methyl-1-Aethyl-R-Trimethylen-2,3-Dicarbon-säure. Sm. 155,5° (*C.* 1901 [1] 579).
- $C_{12}H_{13}O_3N_5$  3) Diacetylderivat d. 3,5-Diimido-1-Phenyltetrahydro-1,2,4-Triazin. Sm. 212° (*G.* 31 [1] 479).
- $C_{12}H_{13}O_3N$  \*14) 4-Aethoxyphenylimid d. Bernsteinsäure (Pyranthin). Sm. 155° (*C.* 1901 [1] 377; *Soc.* 81, 793 *C.* 1902 [2] 108).  
 19) 2,4-Diketo-5-Propyl-3-Phenyltetrahydrooxazol. Sm. 95—96° (*Bl.* [3] 27, 609 *C.* 1902 [2] 342).  
 20) 2,4-Diketo-5-Isopropyl-3-Phenyltetrahydrooxazol. Sm. 66—67° (*Bl.* [3] 27, 611 *C.* 1902 [2] 342).  
 21) Methylester d. 2-Keto-1,2,3,4-Tetrahydrochinolin-4-Methylcarbon-säure. Sm. 111° (*B.* 35, 2076 *C.* 1902 [2] 206).
- $C_{12}H_{13}O_3N_3$  5) Aethylester d. labil. 2-Methoxyphenylhydrazoncyanessigsäure. Sm. 108°. *Na* (*J. pr.* [2] 63, 8).  
 6) Aethylester d. stabil. 2-Methoxyphenylhydrazoncyanessigsäure. Sm. 145° (*J. pr.* [2] 63, 5).  
 7) Aethylester d. labil. 4-Methoxyphenylhydrazoncyanessigsäure. Sm. 116—118° (*J. pr.* [2] 63, 4).  
 8) Aethylester d. stabil. 4-Methoxyphenylhydrazoncyanessigsäure. Sm. 85° (*J. pr.* [2] 63, 3).
- $C_{12}H_{13}O_3Br_3$  2) 4-Acetat d. 5-Brom-3,4-Dioxy-1-[ $\alpha$ - $\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 131—132° (*B.* 35, 117 *C.* 1902 [1] 474).
- $C_{12}H_{13}O_4N$  \*12) Aethylisoimid d. m-Hemipinsäure (*Soc.* 79, 1406).  
 18) Oxycotarnin +  $H_2O$ . Sm. 69—70° (108° wasserfrei) (*B.* 35, 1738 *C.* 1902 [2] 67).  
 19) 2-Acetylphenylamid d. Oxalsäuremonoäthylester. Sm. 128° (*H.* 33, 404; *B.* 34, 2711).
- $C_{12}H_{13}O_4N_3$  5) 4-Acetylamido-2-Keto-1,3-Dimethyl-2,3-Dihydrobenzimidazol-5-Carbonsäure. Sm. noch nicht bei 270° (*B.* 34, 1134).  
 6) Nitril d. *p*-Dinitro-3-tert. Butyl-1-Methylbenzol-6-Carbonsäure. Sm. 85,5° (*D.R.P.* 84336). — \*II, 847.
- $C_{12}H_{13}O_4Br$  7) Dimethylester d.  $\beta$ -Brom- $\alpha$ -Phenyläthan- $\beta$ - $\beta$ -Dicarbonsäure. Sm. 56°; *Sd.* 282—285 (*B.* 35, 1821 *C.* 1902 [2] 25).
- $C_{12}H_{13}O_5N$  13) 4,6,7-Trioxy-2-Methyl-3,4-Dihydrochinolin-6-Methyläther-5-Carbonsäure. Sm. 212° (*B.* 35, 1500 *C.* 1902 [1] 1218).  
 13) Monoacetylderivat d.  $\alpha$ - $\gamma$ -Dioxy- $\beta$ -[4-Pyridyl]- $\beta$ -Oxymethylpropan-3-Carbonsäure- $\alpha$ ,3-Lakton. Sm. 153—154° (*B.* 34, 4338 *C.* 1902 [1] 321).  
 14) Dimethylester d. Formylphenylamidoessigsäure-2-Carbonsäure. *Fl.* (*D.R.P.* 127648 *C.* 1902 [1] 337).
- $C_{12}H_{13}O_5N_3$  \*2) Aethylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Ketopropan- $\alpha$ -Carbonsäure. Sm. 127° (*B.* 34, 79).
- $C_{12}H_{13}O_5Br_3$  2) Verbindung (aus Eugenolglykolsäure). Sm. 153—154° (*M.* 22, 138).
- $C_{12}H_{13}O_6N$  20) Oxyessig-*p*-Nitro-2-Methoxyl-4-Allylphenyläthersäure. Sm. 115 bis 116° (*M.* 22, 140).  
 21) 4-Oximido-3-Oxy-7-Methoxyl-2,3-Dihydro-1,4-Benzpyran-3-Methylcarbon-säure (Oxim d. Brasilssäure) (*Soc.* 81, 228 *C.* 1902 [1] 354).
- $C_{12}H_{13}O_7N$  7)  $\alpha$ - $\gamma$ -Dilakton d.  $\alpha$ - $\beta$ - $\gamma$ -Tetraoxy- $\delta$ -[ $\alpha$ -Oximidoäthyl]- $\delta$ -Methyl- $\beta$ - $\epsilon$ -Heptadien- $\alpha$ -Dicarbonsäure. *Zers.* bei 208° (*A.* 315, 160).
- $C_{12}H_{13}N_2Cl$  \*5) 4-Amidochlorbenzylat d. Pyridin (*D.R.P.* 128726 *C.* 1902 [1] 612).  
 8) 5-Chlor-3-Methyl-4-Aethyl-1-Phenylpyrazol. Sm. 40°; *Sd.* 285° (2HCl, PtCl<sub>4</sub> +  $H_2O$ ) (*B.* 34, 1306).  
 9) Chlormethylat d. 3-[4-Methylphenyl]-1,2-Diazin. 2 + PtCl<sub>4</sub> (*B.* 34, 3837 *C.* 1902 [1] 53).
- $C_{12}H_{13}N_2J$  2) Jodmethylat d. 3-[4-Methylphenyl]-1,2-Diazin. Sm. 182—183° (*B.* 34, 3836 *C.* 1902 [1] 52).
- $C_{12}H_{13}N_3S_2$  3) Methyläther d. 5-Merkapto-2-Allylimido-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 183° (*B.* 34, 318).

- $C_{12}H_{14}ON_2$  \*9) 3-Keto-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 82° (B. 34, 1301).
- 25) 5-Keto-3-Propyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 108°; Sd. 200°<sub>10</sub> (C. 1901 [1] 1154, 1195).
- 26) Methylhydroxyd d. 3-[4-Methylphenyl]-1,2-Diazin. Salze siehe (B. 34, 3836 C. 1902 [1] 52).
- 27) 1-Nitroso-2-tert. Butylindol. Sm. 233° (C. 1902 [2] 1322).
- 28) Methyläther d. 8-Oxy-2,3,5-Trimethyl-1,4-Benzdiazin. Sm. 125° (B. 34, 2240).
- 29) 4-Keto-2-Isobutyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 194—195°. HCl (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat, Oxalat (C. 1901 [2] 891).
- 30) 4-Keto-3-Methyl-2-Propyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 77 bis 78° (C. 1901 [2] 891).
- 31) 4-Keto-3-Methyl-2-Isopropyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 78—79° (C. 1901 [2] 891).
- $C_{12}H_{14}ON_4$  32) Phenylamid d.  $\alpha$ -Cyanvaleriansäure. Sm. 88—89° (C. 1901 [1] 675).
- 5) 2-[ $\alpha$ -Methyl- $\beta$ -Phenylhydrazido]-4-Keto-6-Methyl-3,4-Dihydro-1,3-Diazin. Sm. 192° (G. 31 [1] 520).
- $C_{12}H_{14}OBr_2$  1)  $\alpha\beta$ -Dibrom- $\gamma$ -Keto- $\alpha$ -Phenylhexan. Sm. 90° (B. 35, 3089 C. 1902 [2] 1110).
- $C_{12}H_{14}O_3N_2$  27) *s*-Nitro- $\delta$ -Phenylimido- $\beta$ -Methyl- $\beta$ -Penten. Sm. 84—85° (A. 319, 248 C. 1902 [1] 189).
- 28) 2,4-Diketo-3-Propyl-1-Phenyltetrahydroimidazol. Sm. 82—84° (J. pr. [2] 66, 236 C. 1902 [2] 1122).
- 29) 2,4-Diketo-3-Aethyl-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 99—100° (J. pr. [2] 66, 240 C. 1902 [2] 1123).
- 30) 2,4-Diketo-3-Aethyl-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 91—92° (J. pr. [2] 66, 243 C. 1902 [2] 1123).
- 31) 2,4-Diketo-3-Aethyl-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 139° (J. pr. [2] 66, 238 C. 1902 [2] 1122).
- 32) 2,4-Diketo-4,4-Dimethyl-1-Phenylhexahydro-1,3-Diazin (Dimethylphenylhydrouracil). Sm. 191° (J. pr. [2] 66, 258 C. 1902 [2] 1125).
- 33) 2,5-Diketo-4-Propyl-1-Phenyltetrahydroimidazol. Sm. 117° (102°) (H. 33, 160; B. 35, 405 C. 1902 [1] 575).
- 34) 2,5-Diketo-4-Isopropyl-1-Phenyltetrahydroimidazol. Sm. 124 bis 125° (B. 35, 403 C. 1902 [1] 575).
- 35) 2,5-Diketo-4-Methyl-4-Aethyl-1-Phenyltetrahydroimidazol (Methyläthylphenylhydantoin). Sm. 118° (B. 35, 408 C. 1902 [1] 575).
- 36) 2,6-Diketo-4,4-Dimethyl-1-Phenylhexahydro-1,3-Diazin (Dimethylphenylhydrouracil). Sm. 237° u. Zers. (B. 35, 409 C. 1902 [1] 576).
- $C_{12}H_{14}O_2N_4$  \*4) 4-Ureido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 247—248° (B. 35, 2893 C. 1902 [2] 1052).
- 7) 3,3',5,5'-Tetramido-2,2'-Dioxybiphenyl. 4HCl (B. 35, 311 C. 1902 [1] 587).
- $C_{12}H_{14}O_2S$  1)  $\beta$ -Merkapto- $\beta$ -Penten- $\gamma$ -Carbonsäure ( $\alpha$ -Aethyl- $\beta$ -Thiophenylisocrotonsäure). Sm. 91° (B. 34, 2668).
- $C_{12}H_{14}O_3N_2$  \*7) Aethylester d. Azobenzolacetessigsäure. Sm. 75—78° (B. 35, 919 C. 1902 [1] 806).
- 15) Aethyläther d. 2,4-Diketo-3-Methyl-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 180—181° (J. pr. [2] 66, 245 C. 1902 [2] 1123).
- 16)  $\alpha$ -Phenylureido- $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sm. 195—196° (C. 1901 [1] 218; Bl. [3] 25, 916). — \*II, 190.
- 17) Laktone d.  $\alpha$ -[ $\beta$ -Phenylureido]- $\gamma$ -Oxyvaleriansäure. Sm. 165—166° (B. 35, 3800 C. 1902 [2] 1415).
- 18) 1-Phenylamid d. Tetrahydropyrrol-1,2-Dicarbonylsäure. Sm. 170° (B. 34, 460).
- $C_{12}H_{14}O_3Br_2$  8) 3,4-Methylenäther- $\alpha$ -Aethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -( $\beta$ -Brom-3,4-Dioxyphenyl)propan. Sm. 58—60° (C. 1902 [1] 1163).
- 9) 4-Acetat d. 3,4-Dioxy-1-[ $\alpha\beta$ -Dibrompropyl]benzol-3-Methyläther. Sm. 125—127° (B. 35, 122 C. 1902 [1] 474).
- 10) Monoisobutyrat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol. Sm. 119° (B. 35, 440 C. 1902 [1] 641).
- $C_{12}H_{14}O_4N_2$  17) 2,3-Dicyan-1-Methyl-1-Butyl-R-Trimethylen-2,3-Dicarbonylsäure. Na<sub>2</sub> (C. 1901 [1] 580).

- $C_{12}H_{14}O_4N_2$  18)  $\beta$ -Phenylamidoformoxyltetrahydropyrrol-2-Carbonsäure. Sm. 175° u. Zers. (B. 35, 2663 C. 1902 [2] 598).
- 19) Benzoat d. Trimethyläthylenisonitrosit. Sm. 135—136° (B. 35, 2334 C. 1902 [2] 432).
- $C_{12}H_{14}O_4Br_2$  2) Oxyessig-2-Methoxyl-4-[ $\beta\gamma$ -Dibrompropyl]phenyläthersäure (Eugenolglykolsäuredibromid). Sm. 93—94° (M. 22, 135).
- 3)  $\alpha$ -Acetat d. 5-Brom-3,4-Dioxy- $\alpha$ -[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol-3-Methyläther (B. 35, 119 C. 1902 [1] 474).
- 4) 3-Acetat d. 2,5-Dibrom-6-Oxy-3,4-Di[Oxymethyl]-1-Methylbenzol-4-Methyläther. Sm. 110—111° (B. 32, 3461). — \*II, 697.
- 5) 6-Acetat d. 3,5-Dibrom-2,4,6-Trioxyl-1-Methylbenzol-2-Methyläther-4-Aethyläther. Sm. 77—78° (M. 23, 569 C. 1902 [2] 738).
- 6) 6-Acetat d. 3,5-Dibrom-2,4,6-Trioxyl-1-Methylbenzol-4-Methyläther-2-Aethyläther. Sm. 99—101° (M. 23, 571 C. 1902 [2] 738).
- $C_{12}H_{14}O_4J_2$  1) Oxyessig-2-Methoxyl-4-[ $\beta\gamma$ -Dijodpropyl]phenyläthersäure. Zers. bei 96° (M. 22, 139).
- $C_{12}H_{14}O_6N_2$  8) Aethyläther d. Methyl- $\beta$ -Nitro-5-Acetylamido-2-Oxyphenylketon. Sm. 125° (B. 34, 127).
- 9) Triacetylderivat d. 4,6-Diamido-1,3-Dioxybenzol. Sm. 225° (B. 22, 1657; 30, 2102). — \*II, 570.
- 10)  $\alpha$ -Phenylhydrazon- $\gamma$ -Oxybutan- $\alpha\gamma$ -Dicarbonsäure + 2H<sub>2</sub>O. Sm. 154—155° (165°) (R. 20, 100; A. 317, 13).
- 11) Säure (aus d. Verb.  $C_{14}H_{18}O_8N_2$ ). Sm. 214°. Ba (C. 1902 [1] 28).
- $C_{12}H_{14}N_2Cl_2$  3) Chlormethylat d. 5-Chlor-3,4-Dimethyl-1-Phenylpyrazol. 2 + PtCl<sub>4</sub> (B. 34, 1301).
- $C_{12}H_{14}N_2Br_2$  3) Brommethylat d. 5-Brom-3,4-Dimethyl-1-Phenylpyrazol. Sm. 230° u. Zers. (B. 34, 1305).
- $C_{12}H_{14}N_2S$  5) 3-Thiocarbonyl-1,4,5-Trimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 129° (A. 320, 31 C. 1902 [1] 666).
- $C_{12}H_{14}N_2Se$  1) 3-Selenocarbonyl-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Sm. 172° (A. 320, 43 C. 1902 [1] 667).
- $C_{12}H_{14}N_3Cl$  5-Chlor-3-Methyl-4-Aethyl-1-[4-Amidophenyl]pyrazol. Sm. 107° (B. 34, 1307).
- $C_{12}H_{14}N_4S_2$  2) Disulfid d. 6-Merkapto-2,4-Dimethyl-1,3-Diazin. Sm. 99° (B. 35, 1578 C. 1902 [1] 1237).
- 3) Disulfid d. 2-Merkapto-4,6-Dimethyl-1,3-Diazin. Sm. 162—163° (B. 34, 3963 C. 1902 [1] 127).
- $C_{12}H_{18}ON$  25)  $\gamma$ -Keto- $\alpha$ -(4-Dimethylamidophenyl) $\alpha$ -Buten. Sm. 234—235° (B. 35, 3575 C. 1902 [2] 1384).
- 26)  $\gamma$ -Oximido- $\alpha$ -Phenyl- $\alpha$ -Hexen. Sm. 97° (B. 35, 3089 C. 1902 [2] 1110).
- 27)  $\gamma$ -Oximido- $\alpha$ -Phenyl- $\delta$ -Methyl- $\alpha$ -Penten. Sm. 131—132° (C. 1902 [2] 189).
- 28)  $\gamma$ -Oximido- $\alpha$ -Phenyl- $\beta$ -Aethyl- $\alpha$ -Buten. Sm. 85° (B. 35, 3090 C. 1902 [2] 1111).
- 29) 6-[ $\alpha$ -Oximidoäthyl]-1,2,3,4-Tetrahydronaphtalin. Sm. 106° (B. 35, 2512 C. 1902 [2] 451).
- 30) Methylphenylamid d.  $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sd. 166 bis 168°<sub>36</sub> (B. 34, 2130).
- 31) Aethylphenylamid d. Propen- $\alpha$ -Carbonsäure. Sd. 167—168°<sub>11-12</sub> (B. 34, 2132).
- 32) Aethylphenylamid d. Propen- $\beta$ -Carbonsäure. Sd. 161°<sub>20</sub> (B. 34, 2133).
- 33) d-1,2,3,4-Tetrahydro-2-Naphtylamid d. Essigsäure. Sm. 104—106° (Soc. 79, 85).
- $C_{12}H_{15}ON_3$  8)  $\alpha$ -Semicarbazonphenoheptamethylen. Sm. 206—207° u. Zers. (Soc. 79, 606).
- 9) 4-Phenylhydrazon-3,5,5-Trimethyl-4,5-Dihydroisoxazol. Sm. 140 bis 141° (A. 319, 241 C. 1902 [1] 189).
- 10) 4-Acetylamido-1,2,5-Trimethylbenzimidazol + 3H<sub>2</sub>O. Sm. 198 bis 198,5° (B. 34, 1133).
- $C_{12}H_{15}O_3N$  35) 4-Nitro-1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 57,5—58,5°; Sd. 200 bis 205°<sub>26</sub> (A. 318, 321).
- 36) 1-Aethyl-1,2,3,4-Tetrahydrochinolin-6-Carbonsäure. Sm. 200° u. Zers. (B. 35, 2614 C. 1902 [2] 601).



- C<sub>12</sub>H<sub>15</sub>O<sub>2</sub>N** 37) 1-Aethyl-1,2,3,4-Tetrahydrochinolin-7-Carbonsäure. Sm. 163—164° (B. 35, 2613 C. 1902 [2] 601).
- 38) 1-Aethyl-1,2,3,4-Tetrahydrochinolin-8-Carbonsäure. Sm. 196 bis 197° (B. 35, 2612 C. 1902 [2] 601).
- 39) Methylester d. 1,2,3,4-Tetrahydro-1-Chinolylessigsäure. Sd. 170 bis 190°<sub>13</sub> (A. 318, 113).
- C<sub>12</sub>H<sub>15</sub>O<sub>2</sub>N<sub>3</sub>** 7) 3-Methyl-4-Aethyl-1-[4-Nitrophenyl]-4,5-Dihdropyrazol. Sm. 121° (B. 34, 1307).
- 8) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Butylhexahydropyridin. Sm. 180—182°. Ag (C. 1901 [1] 579).
- 9) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Isobutylhexahydropyridin. Sm. 241—242° (C. 1901 [1] 580).
- 10) 3,5-Dicyan-2,6-Diketo-4-Aethyl-4-Propylhexahydropyridin. Sm. 216—217° (C. 1901 [1] 580).
- 11) 3,5-Dicyan-2,6-Diketo-1,4-Dimethyl-4-Propylhexahydropyridin. Sm. 134—135,5° (C. 1901 [1] 579).
- 12) 3,5-Dicyan-2,6-Diketo-4-Methyl-1,4-Diäthylhexahydropyridin. Sm. 146—147,5° (C. 1901 [1] 579).
- 13) Äthylester d.  $\beta$ -Phenylazo- $\beta$ -Amidocrotonsäure. Sm. 102—103° (B. 34, 3602).
- C<sub>12</sub>H<sub>15</sub>O<sub>3</sub>N** \*3) Anhalonidin (B. 34, 3013).
- 46) Äthyläther d. Methyl-5-Acetyl-amido-2-Oxyphenylketon. Sm. 155° (B. 34, 126).
- 47) 4-Diäthylamidobenzol-1-Ketocarbonsäure. Sm. 114—116°. HCl (C. 1901 [1] 238).
- 48)  $\alpha$ -Benzoylamidovaleriansäure. Sm. 152,5° (B. 35, 404 C. 1902 [1] 575).
- 49)  $\alpha$ -Benzoylamido- $\alpha$ -Methylbuttersäure. Sm. 198—199° (B. 35, 407 C. 1902 [1] 575).
- 50)  $\alpha$ -Benzoylamidoisovaleriansäure. Sm. 132,5° (B. 35, 402 C. 1902 [1] 574).
- 51)  $\beta$ -Benzoylamidoisovaleriansäure. Sm. 141,5° (B. 35, 409 C. 1902 [1] 575).
- 52) 4-Isopropylbenzoylamidoessigsäure (Cuminursäure). Sm. 168°. Ca + 3H<sub>2</sub>O, Ba + H<sub>2</sub>O, Ag (B. 12, 1512; A. 109, 31; 312, 75). — II, 1389; \*II, 843.
- 53) Äthylester d. Phenylimidooxyessigäthyläthersäure. Sd. 152 bis 155°<sub>12</sub> (Soc. 79, 699).
- 54) Äthylester d.  $\alpha$ -[2-Pyridoyl]buttersäure (B. 34, 4243 C. 1902 [1] 209).
- 55) Amid d. Oxyessig-[2-Methoxyl-4-Allylphenyl]äthersäure. Sm. 110° (D.R.P. 65393; M. 22, 131). — \*II, 589.
- 56)  $\alpha$ -Phenylamid d. Butan- $\alpha\delta$ -Dicarbonsäure. Sm. 152—153° (A. 317, 62; G. 32 [1] 444 C. 1902 [2] 402).
- C<sub>12</sub>H<sub>15</sub>O<sub>3</sub>N<sub>3</sub>** 10) o-Toluidin + Oximidocyanessigsäureäthylester. Sm. 85—95° (A. ch. [7] 1, 516). — \*II, 246.
- C<sub>12</sub>H<sub>15</sub>O<sub>3</sub>Br<sub>3</sub>** 3) 1,3-Diäthyläther d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Oxymethyl]benzol. Sm. 62—64° (B. 29, 1132). — \*II, 696.
- 4) Triäthyläther d. 4,5,6-Tribrom-1,2,3-Trioxybenzol. Sm. 38—39° (M. 23, 195 C. 1902 [1] 1332).
- 5) Triäthyläther d. 3,5,6-Tribrom-1,2,4-Trioxybenzol. Sm. 72—73° (M. 22, 354).
- C<sub>12</sub>H<sub>15</sub>O<sub>3</sub>N** \*31) 4-Aethoxyphenylmonamid d. Bernsteinsäure. Sm. 166—167° (C. 1901 [1] 376; Soc. 81, 789 C. 1902 [2] 108).
- \*34) Diäthylester d. Benzol-1-Carbonsäure-2-Amidoameisensäure. Sm. 43—44°; Sd. 174°<sub>10</sub> (C. 1901 [1] 977).
- 36)  $\alpha$ -Phenylamidoformoxylvaleriansäure. Sm. 78° (Bl. [3] 27, 607 C. 1902 [2] 342).
- 37)  $\alpha$ -Phenylamidoformoxylisovaleriansäure. Sm. 111—112° (Bl. [3] 27, 610 C. 1902 [2] 342).
- 38) Methylester d. Acetyl-4-Aethoxyphenylamidoameisensäure. Sm. 84—86° (D.R.P. 69328). — \*II, 404.
- 39) Dimethylester d.  $\alpha$ -Phenylamidoäthan- $\alpha\alpha$ -Dicarbonsäure. Sm. 97° (B. 35, 514 C. 1902 [1] 657).

- $C_{12}H_{15}O_4N$  40) Dimethylester d. Benzol-1-Carbonsäure-2-Methylamidoessigsäure. Fl. (B. 35, 1700 C. 1902 [1] 1364).
- 41) Aethylester d.  $\alpha$ -Benzoylamido- $\beta$ -Oxypropionsäure. Sm. 80° (B. 35, 3770 C. 1902 [2] 1414).
- 42) Aethylester d. Acetyl-4-Methoxyphenylamidoameisensäure. Sm. 60—61° (D.R.P. 69328). — \*II, 404.
- 43) Propylester d. Acetyl-4-Oxyphenylamidoameisensäure. Sm. 85 bis 86° (D.R.P. 69328). — \*II, 404.
- 44) Methylester-4-Acetyläthylamidophenylester d. Kohlensäure. Sm. 83—84° (D.R.P. 89595). — \*II, 404.
- 45) Aethylester-4-Acetylmethylamidophenylester d. Kohlensäure. Sm. 103—104° (D.R.P. 89595). — \*II, 404.
- $C_{12}H_{15}O_4N_3$  8) Aethylester d.  $\alpha$ -[2-Nitro-4-Methylphenyl]hydrazonpropionsäure. Sm. 140° (Soc. 79, 1142).
- 9) Phenylamidoformiat d. Trimethyläthylenisonitrosit. Sm. 151 bis 152° u. Zers. (B. 35, 2335 C. 1902 [2] 432).
- $C_{12}H_{15}O_4Br$  3) Bromaspidinol. Sm. 95—96° (A. 318, 250).
- 4) Bromfilicinsäurebutanon. Sm. 85° (A. 318, 243).
- $C_{12}H_{15}O_3Cl$  1) Lakton d. Chlortriacetylgalaktonsäure. Sm. 98° (B. 35, 944 C. 1902 [1] 859).
- $C_{12}H_{16}ON_2$  \*7) Methylcyrtisin + 2H<sub>2</sub>O (C. 1902 [1] 21).
- 21)  $\gamma$ -[2-Methylphenyl]hydrazon- $\beta$ -Ketopentan. Sm. 58—60° (Bl. [3] 27, 342 C. 1902 [1] 1205).
- 22)  $\gamma$ -[4-Methylphenyl]hydrazon- $\beta$ -Ketopentan. Sm. 137—138° (Bl. [3] 27, 341 C. 1902 [1] 1205).
- 23) Isopropylidenhydrazid d.  $\beta$ -Phenylpropionsäure. Sm. 93° (J. pr. [2] 64, 304).
- 24) Benzylidenhydrazid d. Isovaleriansäure. Sm. 95° (J. pr. [2] 64, 413 C. 1902 [1] 23).
- $C_{12}H_{16}O_3N_2$  \*28) Aethylester d.  $\alpha$ -[4-Methylphenyl]hydrazonpropionsäure. Sm. 106—107° (C. 1901 [2] 326).
- 37) 3,4-Di[Acetylamido]-1,2-Dimethylbenzol. Sm. 196—197° (B. 35, 638 C. 1902 [1] 750).
- 38) 3,5-Di[Acetylamido]-1,2-Dimethylbenzol. Sm. 240—241° (B. 35, 639 C. 1902 [1] 750).
- 39) 3,6-Di[Acetylamido]-1,2-Dimethylbenzol. Sm. 275—276° (B. 35, 639 C. 1902 [1] 750).
- 40) 4,5-Di[Acetylamido]-1,2-Dimethylbenzol. Sm. 227—228° (B. 35, 638 C. 1902 [1] 750).
- 41) 2,4-Di[Acetylamido]-1,3-Dimethylbenzol. Sm. oberh. 260° (Soc. 81, 93 C. 1902 [1] 186).
- 42) 4,6-Di[Acetylamido]-1,3-Dimethylbenzol. Sm. oberh. 260° (Soc. 81, 93 C. 1902 [1] 186).
- 43) Methyl-2-Acetylamido-5-Dimethylamidophenylketon. Sm. 146 bis 148° (B. 34, 3526).
- 44) Säure (aus Natriumcampher u. Chlorcyan). Sm. 168° (Bl. [3] 25, 954 C. 1902 [1] 42).
- 45) Aethylester d.  $\alpha$ -Phenylhydrazonbuttersäure. Sm. 191—192° (R. 21, 235 C. 1902 [2] 506).
- 46) 2-Oxybenzylidenhydrazid d. Isovaleriansäure. Sm. 112° (J. pr. [2] 64, 413 C. 1902 [1] 23).
- $C_{12}H_{16}O_2N_4$  3) 4-Diäthylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 137—138° (C. 1901 [1] 936, 937).
- $C_{12}H_{16}O_2Br_2$  4) 4-Methyläther- $\alpha$ -Aethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[3-Brom-4-Oxyphenyl]propan. Fl. (C. 1902 [1] 1163).
- $C_{12}H_{16}O_3N_2$  32) Aethyläther d. 2,4-Di[Aethylamido]-1-Oxybenzol. Sm. 193° (D.R.P. 77272). — \*II, 413.
- 33)  $\alpha$ -Phenylureidovaleriansäure. Sm. 119° u. Zers. (B. 35, 405 C. 1902 [1] 575).
- 34)  $\alpha$ -Phenylureidoisovaleriansäure. Sm. 163,5° u. Zers. (B. 35, 403 C. 1902 [1] 574).
- 35)  $\beta$ -Phenylureidoisovaleriansäure. Sm. 137° (B. 35, 409 C. 1902 [1] 576).
- 36)  $\alpha$ -Phenylureido- $\alpha$ -Methylbuttersäure. Sm. 179—180° u. Zers. (B. 35, 407 C. 1902 [1] 575).

- $C_{12}H_{10}O_3N_2$  37) 3-Isoamylnitrosamidobenzol-1-Carbonsäure. Sm. 131—132° (A. 319, 336 C. 1902 [1] 351).
- 38) Hydrazid d. Oxyessig-[2-Methoxyl-4-Allylphenyl]äthersäure. Sm. 113° (M. 22, 132).
- $C_{12}H_{10}O_3Br_2$  3) 3-Methyläther- $\alpha$ -Aethyläther d. 5-Brom-3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol. Sm. 78—80° (B. 35, 118 C. 1902 [1] 474).
- $C_{12}H_{10}O_3S$  1) 1,2,3,4,5,6-Hexahydrobiphenyl-4-Sulfonsäure. Sm. 114—116° u. Zers. Na, K, Ba, Cu (A. 318, 318).
- $C_{12}H_{16}O_4N_2$  29) Aethylester d. 2-Methoxyphenylamidoacetylamidoameisensäure. Sm. 134—135° (J. pr. [2] 68, 259 C. 1902 [2] 1125).
- $C_{12}H_{16}O_4N_4$  C 51,4 — H 5,7 — O 22,8 — N 20,0 — M. G. 280.
- 1) Verbindung (aus Cyansäure u. Urethanophenylacetoxamidin). Sm. 160° (B. 34, 376). — \*II, 821.
- $C_{12}H_{16}O_5N_2$  \*3) Aethyläther d. 2,6-Dinitro-3-Oxy-4-Isopropyl-1-Methylbenzol (B. 35, 2793 C. 1902 [2] 988).
- $C_{12}H_{16}O_5S$  2) Aethylester d. 3-Oxy-1-Allylbenzolzomethyläther-4-Schwefelsäure. Sd. 240° u. Zers. (D.R.P. 73165). — \*II, 588.
- 3) Aethylester d. 3-Oxy-1-Propenylbenzolzomethyläther-4-Schwefelsäure. Sd. 235° (D.R.P. 73165). — \*II, 590.
- $C_{12}H_{16}O_6N_2$  4) Diäthyläther d. p-Dinitro-2,3-Dioxy-1-Aethylbenzol. Sm. 83° (M. 23, 189 C. 1902 [1] 1331).
- 5) Triäthylester d. Pyrazol-3,4,5-Tricarbonsäure + 2H<sub>2</sub>O. Sm. 71° (91° wasserfrei) (B. 34, 347).
- $C_{12}H_{16}O_7Br_2$  1)  $\beta$ -Acetodibromglykose. Sm. 176,5° (B. 35, 836 C. 1902 [1] 758).
- $C_{12}H_{16}Cl_4J_2$  1)  $\alpha\beta$ -Dichloräthyl-4-tert. Butylphenyljodoniumjodid. Sm. 91° (B. 34, 3677).
- $C_{12}H_{16}Cl_4J$  1)  $\alpha\beta$ -Dichloräthyl-4-tert. Butylphenyljodoniumchlorid. Sm. 107° + HgCl<sub>2</sub>, 2 + PtCl<sub>4</sub> (B. 34, 3676).
- $C_{12}H_{17}ON$  59) 4-Methylphenylamid d. Isovaleriansäure. Sm. 98° (C. 1902 [2] 504).
- 60) 2,4-Dimethyl-6-Aethylphenylamid d. Essigsäure. Sm. 157—158° (D.R.P. 67844). — \*II, 319.
- $C_{12}H_{17}ON_3$  3)  $\beta$ -Semicarbazon- $\alpha$ -Phenylpentan. Sm. 84° (C. r. 133, 1218 C. 1902 [1] 299).
- 4)  $\gamma$ -Semicarbazon- $\delta$ -Phenyl- $\beta$ -Methylbutan. Sm. 140—141° (C. 1901 [1] 724).
- 5)  $\alpha$ -Semicarbazon- $\alpha$ -[4-Methylphenyl]butan. Sm. 232° (C. r. 133, 1218 C. 1902 [1] 299).
- $C_{12}H_{17}ON_5$  C 58,3 — H 6,9 — O 6,5 — N 28,3 — M. G. 247.
- 1)  $\beta$ -Phenylhydrazon- $\gamma$ -Semicarbazonpentan. Sm. 199—200° (B. 34, 3978 C. 1902 [1] 192).
- $C_{12}H_{17}O_2N$  50) Acetyephedrin. HCl, (2HCl, PtCl<sub>4</sub>) (Ar. 240, 488 C. 1902 [2] 1327).
- 51) isom. Acetyephedrin. HCl, (2HCl, PtCl<sub>4</sub>) (Ar. 240, 489 C. 1902 [2] 1327).
- 52) 3-Isoamylamidobenzol-1-Carbonsäure. Sm. 47—54°. HCl (A. 319, 335 C. 1902 [1] 351).
- 53) Isoamylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 169—170°<sub>13,5</sub> (B. 33, 29). — \*II, 780.
- 54) act. Amylester d. 2-Amidobenzol-1-Carbonsäure. Sd. 294° (C. 1901 [2] 926).
- 55) Phenylamidoformiat d.  $\alpha$ -Oxy- $\beta$ -Methylbutan (Ph. Ch. 14, 396). — \*II, 179.
- 56) Phenylamid d.  $\gamma$ -Oxypentan- $\gamma$ -Carbonsäure. Sm. 91° (Bl. [3] 27, 872 C. 1902 [2] 934).
- $C_{12}H_{17}O_2Cl_3$  1) l-Bornylester d. Trichloressigsäure. Sd. 276—277° (C. r. 134, 609 C. 1902 [1] 872).
- $C_{12}H_{17}O_2Br$  \*1) 4-Methyläther- $\alpha$ -Aethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]-propan (C. 1902 [1] 1162).
- $C_{12}H_{17}O_3N$  19) Aethyläther d. 2-Nitro-3-Oxy-4-Isopropyl-1-Methylbenzol. Fl. (B. 35, 2797 C. 1902 [2] 989).
- 20) Aethyläther d. 6-Nitro-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 60—61° (D.R.P. 67568, 71159; B. 35, 2798 C. 1902 [2] 989). — \*II, 465.
- 21) Camphorformaminocarbonsäure. Sm. 178° u. Zers. (C. 1901 [2] 544).
- 22) Aethylester d. 4-Oxy-p-Dimethylamidomethylbenzol-1-Carbonsäure. Sm. 62° (C. 1901 [1] 1394).

- $C_{12}H_{11}O_3N_3$  3)  $\alpha$ -Semicarbazone- $\delta$ -Dioxy- $\alpha$ -Phenylpentan. Sm. 153—154° (C. 1901 [2] 268).
- 4)  $\alpha$ -Aethylamid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäure-äthylester. Sm. 113° (B. 34, 2334).
- $C_{12}H_{11}O_3Br$  \*1) Triäthyläther d. 5-Brom-1,2,4-Trioxybenzol. Sm. 51—52° (M. 22, 351).
- 2) 3-Methyläther- $\alpha$ -Aethyläther d. 3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]-benzol. Fl. (B. 35, 123 C. 1902 [1] 474).
- $C_{12}H_{11}O_4Br$  1)  $\alpha,\beta$ -3-Trimethyläther d. 5-Brom-3,4-Dioxy-1-[ $\alpha\beta$ -Dioxypropyl]-benzol. Sm. 81—83° (B. 35, 120 C. 1902 [1] 474).
- $C_{12}H_{11}O_5N$  \*1) Triäthyläther d. 5-Nitro-1,2,3-Trioxybenzol (M. 23, 197 C. 1902 [1] 1332).
- 9) Triäthyläther d. 5-Nitro-1,2,4-Trioxybenzol. Sm. 108—109° (M. 22, 347).
- $C_{12}H_{17}O_8N_3$  C 43,5 — H 5,1 — O 38,7 — N 12,7 — M. G. 331.
- 1) Aethylisobutyläther d. 4-Isonitroso-2,6-Dinitro-1,1-Dioxy-1,4-Dihydrobenzol. K (A. 323, 245 C. 1902 [2] 803).
- $C_{12}H_{17}N_2J$  1) 3-Jodäthylat d. 6-Methyl-1-Aethylbenzimidazol. Sm. 129° (B. 35, 1265 C. 1902 [1] 1063).
- $C_{12}H_{18}ON_2$  18) Methylpinennitrosocyanid. Sm. 67° (C. 1902 [2] 364).
- $C_{12}H_{18}ON_4$  C 61,5 — H 7,7 — O 6,8 — N 23,9 — M. G. 234.
- 1) Verbindung (aus d.  $\alpha$ -Nitrosoisobuttersäurenitril) (B. 34, 1865).
- $C_{12}H_{18}O_2N_2$  \*4) 3,6-Di[Methylphenylamido]-2-Methyl-5-Isopropyl-1,4-Benzochinon. Sm. 203° (B. 35, 1507 C. 1902 [1] 1212).
- 8) Amyläther d. 4-Oxyphenylharnstoff. Sm. 133° (B. 34, 1943).
- 9) Amid d. Camphorformenamin-carbonsäure. Sm. 227—228° (C. 1901 [2] 545).
- 10) 4-Aethoxyphenylamid d. Dimethylamidoessigsäure. Sm. 50° (D.R.P. 59121). — \*II, 403.
- $C_{12}H_{18}O_2N_4$  7) 2,6-Diketo-8-Methyl-1,3,7-Triäthylpurin. Sm. 132—133° (D.R.P. 128212 C. 1902 [1] 549).
- $C_{12}H_{18}O_2Cl_2$  1) l-Bornylester d. Dichloressigsäure. Sd. 269—270° (C. r. 134, 609 C. 1902 [1] 872).
- $C_{12}H_{18}O_3N_2$  3) Aethyläther d. 2-Nitro-6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 111—112°. HCl (B. 35, 2794 C. 1902 [2] 989).
- $C_{12}H_{18}O_3S$  12) 1,2,4-Triäthylbenzol-*p*-Sulfonsäure. Na, Mg, Ba (J. pr. [2] 65, 399 C. 1902 [1] 1324).
- 13) 1,3,5-Triäthylbenzol-2-Sulfonsäure. Na (J. pr. [2] 65, 396 C. 1902 [1] 1324).
- $C_{12}H_{18}O_4N_2$  \*1) Phenylhydrazon d. Rhamnose (Bl. [3] 27, 395 C. 1902 [1] 1322).
- 8) Pyrazolon (aus 5-Keto-1-Oxy-1,3-Dimethylhexahydrobenzol-3,5-Dicarbonsäurediäthylester). Sm. 256° u. Zers. (A. 323, 100 C. 1902 [2] 784).
- $C_{12}H_{18}O_5N_2$  \*2) Phenylhydrazon d. Galaktose (Bl. [3] 27, 395 C. 1902 [1] 1322).
- \*3)  $\alpha$ -Phenylhydrazon d. d-Glykose. Sm. 144° (Bl. [3] 25, 645).
- \*4)  $\beta$ -Phenylhydrazon d. d-Glykose. Sm. 115° (C. 1901 [1] 645).
- \*7) Phenylhydrazon d. d-Mannose. Sm. 192° (B. 34, 1534).
- $C_{12}H_{18}O_6N_2$  11) Triäthylester d. 4,5-Dihydropyrazol-3,4,5-Tricarbonsäure. Sm. 98 bis 99° (B. 34, 347).
- $C_{12}H_{18}O_6N_4$  C 45,8 — H 5,7 — O 30,6 — N 17,8 — M. G. 314.
- 1) 4-Nitrophenylhydrazon d. Chitosamin. HCl, HBr (B. 34, 3842 C. 1902 [1] 71).
- 2) Diäthylester d. Bisdiazooacetessigsäure. Sm. 197° u. Zers. Na<sub>2</sub> (G. 32 [2] 143 C. 1902 [2] 1304).
- $C_{12}H_{18}O_6S$  2) 1,2,3-Trioxybenzoltriäthyläther-*p*-Sulfonsäure. K, Ba + 2H<sub>2</sub>O (M. 23, 194 C. 1902 [1] 1332).
- $C_{12}H_{18}NJ$  7) Methyläthylallylphenylammoniumjodid (B. 32, 526). — \*II, 155.
- 8) Jodmethylat d. d-1-Dimethylamido-2,3-Dihydroinden. Sm. 190° (Soc. 81, 276 C. 1902 [1] 661, 811).
- $C_{12}H_{18}N_2J_2$  2) Dijodmethylat d. Nikotin. Fl. (B. 34, 701).
- $C_{12}H_{18}ON$  15) Aethyläther d. 2-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. HCl, (2HCl, PtCl<sub>4</sub>) (B. 35, 2798 C. 1902 [2] 989).
- 16) Aethyläther d. 6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. Fl. HCl (D.R.P. 71154; B. 35, 2798 C. 1902 [2] 989). — \*II, 465.

- $C_{12}H_{19}ON$  17) Methyloxyhydrat d. d-1-Dimethylamido-2,3-Dihydroinden. Jodid, d-Bromcamphersulfonat, d-Camphersulfonat, Pikrat (*Soc.* 81, 276 *C.* 1902 [1] 661, 811).
- $C_{12}H_{19}O_2Cl$  1) l-Bornylester d. Chloressigsäure. *Sd.* 263° (*C. r.* 134, 609 *C.* 1902 [1] 872).
- $C_{12}H_{19}O_2Cl_3$  3) l-Menthylester d. Trichloressigsäure (*C.* 1902 [2] 1238).
- $C_{12}H_{19}O_2Br$  1) l-Bornylester d. Bromessigsäure. *Sd.* 265° (*C. r.* 134, 609 *C.* 1902 [1] 872).
- $C_{12}H_{19}O_2B$  1) Diäthylester d. 2,4-Dimethylphenylborsäure. *Sd.* 160° (*A.* 315, 22).
- $C_{12}H_{19}O_4N$  9) Diäthylester d.  $\delta$ -Cyan- $\beta$ -Methylbutan- $\beta$ -Dicarbonsäure. *Sd.* 166°<sub>10</sub> (*C. r.* 134, 1114 *C.* 1902 [2] 26).
- 10) Diacetat d. Verb.  $C_8H_{15}O_2N$ . ( $HCl$ ,  $AnCl_3$ ) (*C.* 1902 [2] 845).
- $C_{12}H_{19}O_4Br$  2) Diäthylester d. Säure  $C_8H_{11}O_4Br$  (aus Tribrompentan u. Malonsäure-diäthylester). *Sd.* 155—157°<sub>10</sub> (*C.* 1902 [1] 27).
- $C_{12}H_{19}O_6N$  C 52,7 — H 6,9 — O 35,2 — N 5,1 — M. G. 273.
- 1) Oxim d. trim.  $\beta$ - $\gamma$ -Diketobutan. *Sm.* 174—175° (*B.* 35, 3296 *C.* 1902 [2] 1247).
- $C_{12}H_{20}ON_2$  4) Äthyläther d. 2,6-Diamido-3-Oxy-4-Isopropyl-1-Methylbenzol.  $2HCl$  (*B.* 35, 2801 *C.* 1902 [2] 989).
- $C_{12}H_{20}O_2Cl_2$  1) l-Menthylester d. Dichloressigsäure (*C.* 1902 [2] 1238).
- $C_{12}H_{20}O_4N_4$  C 50,7 — H 7,0 — O 22,5 — N 19,7 — M. G. 284.
- 1) Di[Äthylamid] d. Bisanhidronitroessigsäure. *Sm.* 167° u. Zers. (*B.* 34, 879).
- $C_{12}H_{20}O_4Br_2$  3) Diacetat d. Glykol  $C_8H_{16}O_2Br_2$  (*M.* 22, 20).
- $C_{12}H_{20}JAs$  2) Methyläthyl-4-Methylphenylarsoniumjodid. *Sm.* 220° (*A.* 320, 305 *C.* 1902 [1] 920).
- $C_{12}H_{21}ON$  18) Acetylcamphidin. *Sm.* 30—40°; *Sd.* 290—291° (*B.* 34, 3284).
- $C_{12}H_{21}O_2Cl$  2) l-Menthylester d. Chloressigsäure (*C.* 1902 [2] 1238).
- $C_{12}H_{21}O_2Br$  2) Äthylester d. Brom- $\alpha$ -Dihydrocampholensäure. *Sd.* 135—140°<sub>12</sub> (*Bl.* [3] 27, 75 *C.* 1902 [1] 586).
- 3) l-Menthylester d. Bromessigsäure (*C.* 1902 [2] 1238).
- $C_{12}H_{21}O_4N$  9) Diäthylester d. 1-Methylhexahydropyridin-3,4-Dicarbonsäure. *Sd.* 153—155°<sub>20</sub> (*M.* 23, 275 *C.* 1902 [1] 1323).
- $C_{12}H_{21}N_2Cl$  2) Chlormethylat d. 2,4-Di[Dimethylamido]-1-Methylbenzol. 2 +  $PtCl$  (*Soc.* 81, 654 *C.* 1902 [1] 1279).
- $C_{12}H_{21}N_2Br$  1) Brommethylat d. 2,4-Di[Dimethylamido]-1-Methylbenzol (*Soc.* 81, 654 *C.* 1902 [1] 1279).
- $C_{12}H_{22}ON_2$  6) Nitropiperidid d. 1-Methyl-1,2,3,4-Tetrahydrobenzol. *Sm.* 152 bis 153° (*B.* 35, 2824 *C.* 1902 [2] 990).
- $C_{12}H_{22}O_2N_2$  \*3) 2,5-Diketo-3,6-Diisobutylhexahydro-1,4-Diazin (Leucinimid). *Sm.* 271° (*B.* 34, 448).
- 4) l-Acetyl-3-Acetylamido-2,2,5,5-Tetramethyltetrahydropyrrol. *Sm.* 166—167° (*A.* 322, 101 *C.* 1902 [2] 126).
- 5) 2,5-Diketo-3,6-Dibutylhexahydro-1,4-Diazin. *Sm.* 268° (*B.* 34, 450).
- $C_{12}H_{22}O_4N_6$  C 45,9 — H 7,0 — O 20,4 — N 26,7 — M. G. 314.
- 1) Äthylester d.  $\delta$ -Semicarbazon- $\gamma$ -[ $\alpha$ -Semicarbazonäthyl]pentan- $\beta$ -Carbonsäure. *Sm.* 207—208°. +  $\frac{1}{2}$  Mol. Essigsäureäthylester (*C.* 1902 [2] 346; *C. r.* 134, 181 *C.* 1902 [1] 457).
- $C_{12}H_{23}ON$  6) Acetylthujamenthylamin. *Sm.* 128—129° (*A.* 323, 354 *C.* 1902 [2] 1205).
- 7) Dimethylupinin. *Sd.* 169—172°<sub>28—29</sub> (*B.* 35, 1923 *C.* 1902 [2] 133).
- 8) Nitril d.  $\beta$ -Oxyundekan- $\beta$ -Carbonsäure. *Fl.* (*C. r.* 134, 477 *C.* 1902 [1] 745).
- $C_{12}H_{23}OCl$  \*1) Chlorid d. Laurinsäure. *Sd.* 145°<sub>18</sub> (*Am.* 27, 305 *C.* 1902 [1] 1303).
- $C_{12}H_{23}O_3N$  3) Äthylester d.  $\alpha$ -Oximido- $\beta$ -Methyloktan- $\alpha$ -Carbonsäure. *Sd.* 177°<sub>10</sub> (*C. r.* 135, 182 *C.* 1902 [2] 575).
- 6) s-Dicaproylhydrazin. *Sm.* 159° (*B.* 34, 189).
- $C_{12}H_{24}O_2N_2$  2) Äther d. 4-[ $\beta$ -Oxyäthyl]morpholin. 2 Pikrat (*B.* 34, 2910).
- $C_{12}H_{24}O_3N_2$  3) Leucylleucin +  $1\frac{1}{2}H_2O$ . *Sm.* oberh. 270° (*B.* 35, 1104 *C.* 1902 [1] 911).
- $C_{12}H_{24}O_6S_2$  2) Äthylester d.  $\beta$ -Di[Äthylsulfon]- $\alpha$ -Dimethylbuttersäure. *Sm.* 131—132° (*B.* 34, 2669).
- $C_{12}H_{24}N_2S_4$  1) Disulfid d. Isoamylamidodithioameisensäure (Diisoamylthiuramdisulfid). *Sm.* 61—62° (*B.* 35, 822 *C.* 1902 [1] 712).
- $C_{12}H_{26}ON$  \*1) Amid d. Laurinsäure. *Sm.* 98—99° (*Am.* 27, 305 *C.* 1902 [1] 1303).



- $C_{12}H_{25}ON_3$  C 63,4 — H 11,0 — O 7,0 — N 18,5 — M. G. 227.  
 1)  $\beta$ -Semicarbazonundekan. Sm. 123—124° (C. 1901 [1] 525).  
 2)  $\beta$ -Semicarbazon- $\delta$ -Methyldekan. Sm. 66° (C. r. 135, 296 C. 1902 [2] 693).
- $C_{12}H_{25}O_2N$  4)  $\beta$ -Amidoundekan- $\beta$ -Carbonsäure. Sm. 185° (C. r. 134, 478 C. 1902 [1] 745).  
 5) Aethylester d.  $\zeta$ -Amido- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäure. Sd. 149°<sub>30</sub> (A. 323, 326 C. 1902 [2] 1111).  
 6) Amid d.  $\beta$ -Oxyundekan- $\beta$ -Carbonsäure. Sm. 86—87° (C. r. 134, 478 C. 1902 [1] 745).
- $C_{12}H_{25}NS_2$  3) Methyldekylamidodithioameisensäure.  $\beta$ -Undekylaminsalz (G. 24, [2] 281). — \*I, 717.
- $C_{12}H_{26}O_6S_3$  1)  $\gamma\delta\delta$ -Tri[Aethylsulfon]- $\beta$ -Methylpentan. Sm. 100° (B. 34, 1399).  
 $C_{12}H_{26}NCl$  2) Chlormethylat d. 1,4-Dimethyl-7-Isopropylhexamethylenimin. +  $AuCl_3$  (A. 324, 303 C. 1902 [2] 1507).  
 3) Chlormethylat d. Base  $C_{11}H_{23}N$ . 2 +  $PtCl_4$  (A. 324, 291 C. 1902 [2] 1507).  
 4) act. Chloramylat d. 1,2-Dimethylhexahydropyridin. 2 +  $PtCl_4$ , +  $AuCl_3$  (B. 34, 3018).
- $C_{12}H_{26}NJ$  2) Jodmethylat d. 1,4-Dimethyl-7-Isopropylhexamethylenimin. Sm. 236° (A. 324, 302 C. 1902 [2] 1507).  
 3) Jodmethylat d. Base  $C_{11}H_{23}N$ . Sm. 202—203° (A. 324, 290 C. 1902 [2] 1507).  
 4) act. Jodamylat d. 1,2-Dimethylhexahydropyridin. Sm. 214° (B. 34, 3018).
- $C_{12}H_{27}ON$  2)  $\beta$ -Oxyäthyl-diisoamylamin. Sd. 247—248°<sub>745</sub>. Pikrat, Pikrolonat (A. 316, 315).
- $C_{12}H_{28}NJ$  \*1) Tetrapropylammoniumjodid. Zers. bei 280° (B. 35, 774 C. 1902 [1] 720).  
 $C_{12}H_{33}O_{35}N_{13}$  C 19,4 — H 4,3 — O 53,7 — N 22,6 — M. G. 744.  
 1) Verbindung (aus Guanidin u. Glyoxylsäure). Sm. 167° (B. 35, 3604 C. 1902 [2] 1412).

- $C_{12}HO_2NCl_6$  1) Imid d. 2,3,4,5,6,7-Hexachlornaphtalin-1,8-Dicarbonsäure. Sm. 260—261° (G. 32 [2] 82 C. 1902 [2] 899).
- $C_{12}H_3O_2NCl_4$  1) Imid d.  $\beta$ -Tetrachlornaphtalin-1,8-Dicarbonsäure. Sm. 302 bis 303° (G. 32 [2] 83 C. 1902 [2] 889).
- $C_{12}H_3O_3NCl_4$  1) Monoxim d.  $\beta$ -Tetrachlornaphtalin-1,8-Dicarbonsäureanhydrid. Sm. 263—264° (G. 32 [2] 84 C. 1902 [2] 900).
- $C_{12}H_4O_2NJ_3$  1) Imid d.  $\beta$ -Trijodnaphtalin-1,8-Dicarbonsäure. Zers. bei 325° (G. 32 [2] 92 C. 1902 [2] 901).
- $C_{12}H_4O_3NJ_3$  1) Monoxim d.  $\beta$ -Trijodnaphtalin-1,8-Dicarbonsäureanhydrid. Zers. bei 310—320° (G. 32 [2] 92 C. 1902 [2] 901).
- $C_{12}H_4O_{12}N_6S$  \*1) Di[2,4,6-Trinitrophenyl]sulfid (R. 20, 426 C. 1902 [1] 418).  
 $C_{12}H_5O_4N_3J_5$  1) 5,5', $\beta$ -Trijod-3,3'-Dinitrodiphenyljodoniumjodid. Sm. 98° (B. 34, 3414).
- $C_{12}H_6O_2NCl$  1) Imid d.  $\beta$ -Chlornaphtalin-1,8-Dicarbonsäure. Sm. 233—234° (G. 32 [1] 54).
- $C_{12}H_6O_2NBr$  \*1) Imid d.  $\beta$ -Bromnaphtalin-1,8-Dicarbonsäure. Sm. 284° (G. 32 [2] 87 C. 1902 [2] 900).  
 2) Imid d.  $\beta$ -Bromnaphtalin-1,8-Dicarbonsäure. Sm. 200° u. Zers. (G. 32 [1] 53).
- $C_{12}H_6O_3NBr$  1) Monoxim d.  $\beta$ -Bromnaphtalin-1,8-Dicarbonsäureanhydrid. Sm. 278—280° (G. 32 [2] 88 C. 1902 [2] 900).
- $C_{12}H_6O_4N_2Cl_2$  2) 4,4'-Dichlor-2,2'-Dinitrobiphenyl. Sm. 136° (B. 34, 2181; B. 34, 3803 C. 1902 [1] 44).  
 3) 5,5'-Dichlor-2,2'-Dinitrobiphenyl. Sm. 170° (B. 34, 3804 C. 1902 [1] 44).
- $C_{12}H_6O_4N_2Br_2$  2) 4,4'-Dibrom-2,2'-Dinitrobiphenyl. Sm. 138° (B. 34, 2181).  
 $C_{12}H_6O_5N_2J_4$  1) 5,5', $\beta$ -Trijod-3,3'-Dinitrodiphenyljodoniumhydrat. Salze siehe (B. 34, 3414).
- $C_{12}H_6O_8N_3Cl$  1) Chlorid d. Oxyessig-1, $\beta$ , $\beta$ -Trinitro-2-Naphtyläthersäure. Sm. 159—160° u. Zers. (B. 34, 3198). — \*II, 524.

- $C_{12}H_8O_8N_4S_2$  \*1) Di[2,4-Dinitrophenyl]disulfid. Zers. bei  $280^\circ$  (R. 20, 130).  
 $C_{12}H_7ONCl_4$  1) 2, 3, 5, 4'-Tetrachlor-4-Oxydiphenylamin (C. 1898 [2] 36). — \*II, 417.
- $C_{12}H_7ONS$  3) Anhydrid d. 3-Oxyphenazthioniumhydroxyd (Phenazthion). Sm. 165—166° (A. 322, 53 C. 1902 [2] 224).  
 $C_{12}H_7O_2NCl_3$  1) 3-Methylpyridyloxydichlorbenzochinon (C. r. 133, 164).  
 $C_{12}H_7O_2Br_3S$  \*1) 2, 4, 6-Tribromphenylester d. Benzolsulfonsäure. Sm. 99° (Am. 27, 40 C. 1902 [1] 469).  
 $C_{12}H_7O_2N_3S$  1) 2, 4, 2'-Trinitrodiphenylsulfid. Sm. 131° (R. 20, 405 C. 1902 [1] 417).  
 2) 2, 4, 4'-Trinitrodiphenylsulfid. Sm. 155° (R. 20, 406 C. 1902 [1] 417).  
 $C_{12}H_7O_2N_3S$  1) Dinitrocarbazon- $\alpha$ -Sulfonsäure (D.R.P. 128854 C. 1902 [1] 609).  
 2) Dinitrocarbazon- $\beta$ -Sulfonsäure (D.R.P. 128854 C. 1902 [1] 609).  
 3) Dinitrocarbazon- $\gamma$ -Sulfonsäure (D.R.P. 128854 C. 1902 [1] 609).  
 $C_{12}H_7O_2N_3S$  1) 2, 4, 6-Trinitrodiphenylsulfon. Sm. 233° (B. 34, 1151).  
 $C_{12}H_7O_{10}N_2S_2$  1) Dinitrocarbazon-disulfonsäure (D.R.P. 128854 C. 1902 [1] 609).  
 $C_{12}H_8ON_2J_2$  3) Dijoddiphenylnitrosamin. Sm. 119—120° (D.R.P. 81928). — \*II, 156.
- $C_{12}H_8ON_2J_3$  1) 5-Jod-3-Nitrodiphenyljodoniumjodid. Sm. 152° (B. 34, 3411).  
 $C_{12}H_8ON_2J_5$  1) 5-Jod-3-Nitrodiphenyljodoniumperjodid. Sm. 160° (B. 34, 3411).  
 $C_{12}H_8O_2J_2S_2$  1) 4-Jodphenylester d. 4-Jodbenzol-1-Thiolsulfonsäure. Sm. 193° (J. pr. [2] 65, 88 C. 1902 [1] 581).  
 $C_{12}H_8O_2NCl_3$  1) Chloral-1-Nitro-2-Oxynaphtalin. Sm. 100° (D.R.P. 66877). — \*II, 524.
- $C_{12}H_8O_3Cl_3P$  1) Chlorid d. Di[4-Chlorphenyl]phosphorsäure (B. 30, 2376). — \*II, 369.
- $C_{12}H_8ONCl$  1) Chlorid d. Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 94° (B. 34, 3196). — \*II, 524.
- $C_{12}H_8O_2N_3S$  \*1) 2, 2'-Dinitrodiphenylsulfid. Sm. 122° (R. 20, 117).  
 $C_{12}H_8O_2N_2S_2$  \*1) 2, 2'-Dinitrodiphenyldisulfid. Sm. 195° (R. 20, 117, 125; R. 20, 400 C. 1902 [1] 417).  
 \*3) 4, 4'-Dinitrodiphenyldisulfid. Sm. 170° (R. 20, 128).  
 1) 2, 2'-Dinitrodiphenyltrisulfid. Sm. 185° (R. 20, 144).  
 2) 2, 2'-Dinitrodiphenyltetrasulfid. Sm. 160° (R. 20, 145).  
 $C_{12}H_8O_2N_2Br$  3) 5-Brom-2, 4-Dinitro-1-Phenylamidobenzol. Sm. 157° (Am. 26, 5).  
 $C_{12}H_8O_2N_3S$  \*1) 2, 2'-Dinitrodiphenylsulfoxyd. Sm. 184° (R. 19, 117).  
 $C_{12}H_8O_2N_3Cl$  2) 5'-Chlor-2', 4'-Dinitro-2-Oxydiphenylamin. Sm. 195° (C. 1901 [2] 333).  
 3) 3-Chlor-2', 4'-Dinitro-4-Oxydiphenylamin. Sm. 180° (D.R.P. 128725 C. 1902 [1] 551).  
 4) 5'-Chlor-2', 4'-Dinitro-4-Oxydiphenylamin. Sm. 228° (C. 1901 [2] 333).
- $C_{12}H_8O_2N_2S$  \*1) 2, 2'-Dinitrodiphenylsulfon. Sm. 163° (R. 20, 118).  
 $C_{12}H_8O_2N_2S_2$  2) 4-Dinitrodiphenylsulfon. Sm. 157° (B. 34, 1151).  
 3) 4-Nitrophenylester d. 4-Nitrobenzol-1-Thiolsulfonsäure (4-Nitrophenyldisulfoxyd). Sm. 179—180° (B. 35, 660 C. 1902 [1] 724).
- $C_{12}H_8O_2N_3S$  1) 2, 4, 6-Trinitro-2'-Merkaptodiphenylamin (B. 32, 2606). — \*II, 474.  
 2) 4-Nitro-1-[4-Nitrophenyl]sulfondiazobenzol. Zers. bei 135° (B. 35, 657 C. 1902 [1] 724).  
 $C_{12}H_8O_2N_7S$  2) 4-Nitrophenylester d. 3-Nitrobenzol-1-Sulfonsäure. Sm. 132 bis 133° (D.R.P. 91314). — \*II, 380.
- $C_{12}H_8O_{10}N_2S_2$  1) 2, 2'-Dinitrobiphenyl-4, 4'-Disulfonsäure. K<sub>2</sub> (D.R.P. 126961 C. 1902 [1] 78).  
 $C_{12}H_8O_{10}N_4S_2$  1) 2, 2'-Dinitroazobenzol-4, 4'-Disulfonsäure. Na + H<sub>2</sub>O, Ba, Ag (B. 28, 2949; 34, 2854).  
 2) Phenazthioniumchlorid. 2 + FeCl<sub>3</sub> (B. 34, 4172 C. 1902 [1] 253; D.R.P. 126602 C. 1902 [1] 80; A. 322, 37 C. 1902 [2] 223).  
 $C_{12}H_8NBrs$  1) Phenazthioniumbromid (B. 34, 4172 C. 1902 [1] 253; D.R.P. 126602 C. 1902 [1] 80; A. 322, 37 C. 1902 [2] 223).  
 $C_{12}H_8ONBr_2$  \*2) 3, 8-Dibrom-1-Naphtylamid d. Essigsäure (G. 32 [2] 21 C. 1902 [2] 893).  
 $C_{12}H_8ONS$  2) Phenazthioniumhydroxyd. Salze siehe (B. 34, 4171 C. 1902 [1] 253; A. 322, 38 C. 1902 [2] 223).

- $C_{12}H_9ONS_2$  1) Oxydithiodiphenylamin. Sm. 155° (D.R.P. 52827). — \*II, 481.  
 $C_{12}H_9O_2NS$  3) Aethyl-sec. Butylamid d. Benzolsulfonsäure. Sm. 43—44° (J. pr. [2] 63, 198).  
 $C_{12}H_9O_2N_2Cl$  2) 4'-Chlor-2-Nitrodiphenylamin. Sm. 145,5° (B. 35, 957 C. 1902 [1] 805).  
 $C_{12}H_9O_2N_2Br$  \* 1) 5-Brom-2-Nitrodiphenylamin. Sm. 116° (R. 21, 277 C. 1902 [2] 515).  
 $C_{12}H_9O_2N_5Cl_2$  2) 3,6-Dichlor-4'-Nitro-2,4-Diamidoazobenzol. Sm. 210—230° (Soc. 81, 1383 C. 1902 [2] 1189).  
 3) 3,5-Dichlor-4'-Nitro-2,6-Diamidoazobenzol. Sm. 258° (Soc. 81, 1384 C. 1902 [2] 1189).  
 $C_{12}H_9O_3NJ_2$  1) 5-Jod-3-Nitrodiphenyljodoniumhydrat. Salze siehe (B. 34, 3410).  
 $C_{12}H_9O_3N_2Cl$  1) p-Chlor-p-Nitro-1-Naphtylamid d. Essigsäure. Sm. 216° (G. 32 [2] 21 C. 1902 [2] 893).  
 $C_{12}H_9O_3N_3S$  1) Carbazol-3-Diazosulfonsäure. Na (B. 34, 1681).  
 $C_{12}H_9O_3NS$  3) 2-Nitrodiphenylsulfon. Sm. 147,5° (B. 34, 1153).  
 4) 4-Nitrodiphenylsulfon. Sm. 143° (B. 34, 1153).  
 $C_{12}H_9O_4N_3S$  2) 8-Amido-2-Oxy-5,10-Naphtdiazin-3-Sulfonsäure (Amidooxyphenazinsulfonsäure) (C. 1901 [1] 1130; 1901 [2] 1107).  
 $C_{12}H_9O_4N_4Cl$  3) 5-Chlor-2,4-Dinitro-2'-Amidodiphenylamin. Sm. 232° (B. 34, 3729 C. 1902 [1] 54).  
 $C_{12}H_9O_5NBr_4$  1)  $\alpha$ -Nitrat d.  $\alpha$ -Brom- $\alpha$ -Oxy- $\beta$ -[3,5,6-Tribrom-2-Acetoxy-4-Methylphenyl]propen. Sm. 89° (B. 34, 49). — \*II, 694.  
 $C_{12}H_9O_5NS$  5) 1,2-Anhydrid d. Oxyessig-1-Amido-2-Naphtyläthersäure-6-Sulfonsäure. Na (D.R.P. 58614). — \*II, 533.  
 $C_{12}H_9O_5N_2As$  1) Di[p-Nitrophenyl]oxyarsin. Sm. 149° (A. 321, 145 C. 1902 [2] 42).  
 $C_{12}H_9O_5N_3S$  1) 2,4-Dinitro-5-Merkapto-2'-Oxydiphenylamin. Zers. bei 302° (C. 1901 [2] 383).  
 2) 2,4-Dinitro-5-Merkapto-4'-Oxydiphenylamin. Zers. bei 307° (C. 1901 [2] 383).  
 $C_{12}H_9O_5N_2As$  1) Di[p-Nitrophenyl]arsinsäure. Sm. 256°. Ba, CuOH, Ag (A. 321, 151 C. 1902 [2] 43).  
 $C_{12}H_9O_7N_3S$  1) 2,4-Dinitrodiphenylamin-3'-Sulfonsäure (D.R.P. 101862, 105058, 106039). — \*II, 323.  
 2) 2,4-Dinitrodiphenylamin-4'-Sulfonsäure (D.R.P. 101862, 105058). — \*II, 323.  
 $C_{12}H_9O_5NS$  1) Oxyessig-1-Nitro-2-Naphtyläthersäure-6-Sulfonsäure (D.R.P. 58614). — \*II, 532.  
 $C_{12}H_9O_5N_3S$  1) 2',4'-Dinitro-2-Oxydiphenylamin-5-Sulfonsäure. Na (C. 1900 [2] 797). — \*II, 492.  
 $C_{12}H_{10}ONCl$  5) 8-Chlor-1-Naphtylamid d. Essigsäure. Sm. 137° (B. 35, 2809 C. 1902 [2] 1119).  
 $C_{12}H_{10}ONBr$  5) 5-Brom-1-Naphtylamid d. Essigsäure. Sm. 215° (B. 35, 2805 C. 1902 [2] 1118).  
 $C_{12}H_{10}ON_2S$  2) Benzylidenhydrazid d. Thiophen-2-Carbonsäure. Sm. 177° (J. pr. [2] 65, 9 C. 1902 [1] 458).  
 $C_{12}H_{10}O_2NCl$  3) Aethylster d.  $\alpha$ -Cyan- $\beta$ -[4-Chlorphenyl]akrylsäure. Sm. 93° (J. pr. [2] 65, 284 C. 1902 [1] 1216).  
 $C_{12}H_{10}O_2NCl_5$  1) Pentachlorphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 123°; Sd. 259°<sub>11</sub> (Bl. [3] 27, 452 C. 1902 [2] 66).  
 $C_{12}H_{10}O_2N_2S$  13) Benzoylhydrazid d. Thiophen-2-Carbonsäure (J. pr. [2] 65, 12 C. 1902 [1] 458).  
 14) 2-Oxybenzylidenhydrazid d. Thiophen-2-Carbonsäure. Sm. 176° (J. pr. [2] 65, 10 C. 1902 [1] 458).  
 $C_{12}H_{10}O_4NBr$  1)  $\alpha$ -Brom- $\gamma$ -Phtalylamidobuttersäure. Sm. 154—156° (B. 34, 2902).  
 $C_{12}H_{10}O_4N_2S_3$  2) Diäthylester d. 3,4-Dicyan-2,5-Dithiocarbonyltetrahydrothiophen-3,4-Dicarbonsäure. Sm. 225° (B. 33, 2042; 34, 1044).  
 $C_{12}H_{10}O_5NaS$  1) Nitrat d. Diphenylarsinsäure. Sm. 125° (A. 321, 151 C. 1902 [2] 43).  
 $C_{12}H_{10}O_5N_2S$  \* 4) 2,4-Dioxyazobenzol-4'-Sulfonsäure.  $NH_4 + 2\frac{1}{2}H_2O$ ,  $Na + 2\frac{1}{2}H_2O$ ,  $K + 2\frac{1}{2}H_2O$ ,  $Ca + 2\frac{1}{2}H_2O$ ,  $Ba + 5H_2O$ ,  $Mg + 5H_2O$ ,  $Zn + 5H_2O$ ,  $Pb + 5H_2O$ ,  $Fe + 5H_2O$ ,  $Cu + 5H_2O$ , Anilinsalz (Bl. [3] 25, 869).  
 $C_{12}H_{10}O_6N_2S$  4) 2'-Nitro-4-Oxydiphenylamin-4'-Sulfonsäure. (C. 1900 [1] 1056). — \*II, 399.

- $C_{12}H_{10}O_6N_2S_2$  \*4) Azobenzol-4,4'-Disulfonsäure.  $K_2 + 2\frac{1}{4}H_2O$  (C. 1902 [2] 1182).  
 $C_{12}H_{10}O_6N_2S$  \*3) 4-Nitrophenylhydrazid d. 4-Nitrobenzol-1-Sulfonsäure. Sm. 171—172° (B. 35, 658 C. 1902 [1] 724).  
 $C_{12}H_{11}ONS_2$  1) 8-Acetylamido-1-Oxynaphtalin-3,6-Disulfonsäure (D.R.P. 113892). — \*II, 517.  
 $C_{12}H_{11}O_2NBr_2$  4) Nitril d.  $\beta\gamma$ -Dibrom- $\alpha$ -Acetyl- $\gamma$ -Phenylbuttersäure. Sm. 166 bis 167° (A. 319, 210 C. 1902 [1] 108).  
 5) Nitril d. 3,6-Dibrom-4-Acetoxy-2,5-Dimethylphenylessigsäure. Sm. 159—161° (B. 34, 4281 C. 1902 [1] 309).  
 $C_{12}H_{11}O_2NS$  4) 2-Amidodiphenylsulfon. Sm. 122° (B. 34, 1153).  
 5) 4-Amidodiphenylsulfon. Sm. 176° (B. 34, 1155).  
 $C_{12}H_{11}O_2N_2Br_3$  1) 2,4-Diketo-3- $[\beta\gamma$ -Dibrompropyl]-1-[ $p$ -Bromphenyl]tetrahydroimidazol. Sm. 153—154° (J. pr. [2] 66, 253 C. 1902 [2] 1124).  
 $C_{12}H_{11}O_3NS$  \*5) 4-Oxyphenylamid d. Benzolsulfonsäure. Sm. 153—154° (D.R.P. 128815 C. 1902 [1] 551).  
 $C_{12}H_{11}O_3N_2S$  6) 4-Phenylamidodiazobenzol-1-Sulfonsäure. K, Ag, HCl (B. 35, 894 C. 1902 [1] 867).  
 7) 4-Amidoazobenzol-3'-Sulfonsäure (D.R.P. 131860 C. 1902 [2] 83).  
 8) Carbazol-3-Hydrazinsulfonsäure. Na (B. 34, 1682).  
 $C_{12}H_{11}O_3ClS$  14) Chlorid d. 1-Oxynaphtalinäthyläther-4-Sulfonsäure. Sm. 101° (B. 34, 3181). — \*II, 511.  
 15) Chlorid d. 2-Oxynaphtalinäthyläther-7-Sulfonsäure. Sm. 103° (B. 29 [2] 665). — \*II, 532.  
 $C_{12}H_{11}O_4NS$  2) 3-Oxydiphenylamin-6-Sulfonsäure? (D.R.P. 76415). — \*II, 492.  
 3) 2-Naphtylsulfonamidoessigsäure. Sm. 159° (B. 35, 3780 C. 1902 [2] 1469).  
 4) 1-Acetylamidophtalin-5-Sulfonsäure +  $4H_2O$  (D.R.P. 69555). — \*II, 343.  
 5) 1-Acetylamidonaphtalin-8-Sulfonsäure (D.R.P. 75084). — \*II, 343.  
 $C_{12}H_{11}O_4NS_2$  2) Imid d. Benzolsulfonsäure (C. 1901 [2] 1185).  
 $C_{12}H_{11}O_4N_4Cl$  1) 5-Chlor-3-Methyl-4-Aethyl-1-[ $p$ -Dinitrophenyl]pyrazol. Sm. 138° (B. 34, 1307).  
 $C_{12}H_{11}O_5NS$  7) 6-Acetylamido-1-Oxynaphtalin-3-Sulfonsäure (C. 1901 [2] 74).  
 $C_{12}H_{11}O_5NS_2$  \*1) Dibenzsulfhydroxamsäure. Sm. 126° (C. 1902 [2] 692).  
 $C_{12}H_{11}O_5NS$  4) 2-Nitro-1-Oxynaphtalinäthyläther-4-Sulfonsäure. K +  $\frac{1}{2}H_2O$  (B. 34, 3189). — \*II, 514.  
 $C_{12}H_{11}O_5NS_2$  5)  $\beta$ -[2-Naphtyl]imidoäthan- $\alpha\alpha$ -Disulfonsäure.  $K_2 + 2H_2O$  (Bl. [3] 27, 10 C. 1902 [1] 405).  
 $C_{12}H_{12}O_2NCl$  3) 3-Chlor-2- $[\beta\beta'$ -Dioxyisopropyl]chinolin. Sm. 122—123°. (2HCl,  $PtCl_4 + 2H_2O$ ), Pikrat (B. 35, 2560 C. 1902 [2] 600).  
 $C_{12}H_{12}O_2NJ$  2) Chinoliniumessigsäuremethylesterjodid. Sm. 151—152° u. Zers. (A. 318, 107).  
 $C_{12}H_{12}O_2N_2Br_2$  2) 2,4-Diketo-3- $[\beta\gamma$ -Dibrompropyl]-1-Phenyltetrahydroimidazol. Sm. 127° (J. pr. [2] 66, 250 C. 1902 [2] 1124).  
 $C_{12}H_{12}O_2N_2S$  5) 2,4-Diamidodiphenylsulfon. Sm. 188° (B. 34, 1152).  
 6) Verbindung (aus 2-Imido-4-Keto-3-[4-Methylphenyl]tetrahydrothiazol). Sm. 175—176° (Am. 28, 151 C. 1902 [2] 794).  
 $C_{12}H_{12}O_2N_3Cl$  1) 5-Chlor-3-Methyl-4-Aethyl-1-[4-Nitrophenyl]pyrazol. Sm. 71° (B. 34, 1307).  
 $C_{12}H_{12}O_3NCl$  6) Methylester d. 4-Methylphenylamidomukochlorsäure. Sm. 118° (B. 34, 518).  
 $C_{12}H_{12}O_3NBr$  4) Aethylester d. Phenylamidomukobromsäure. Sm. 114° (B. 34, 517).  
 $C_{12}H_{12}O_3NBr$  \*4) Bromoxycotarnin. Sm. 125—126° (B. 35, 1738 C. 1902 [2] 67).  
 $C_{12}H_{12}O_3N_2S_2$  \*1) Di[Phenylsulfon]hydrazin. Sm. 245° (B. 34, 3160).  
 $C_{12}H_{12}O_3N_2S$  1) Nitrodiamidodiphenylaminsulfonsäure (C. 1901 [2] 1191).  
 $C_{12}H_{12}O_3N_2S_2$  5) s-Diphenylhydrazin-4,4'-Disulfonsäure (C. 1902 [2] 1182).  
 $C_{12}H_{13}O_3NS$  6) Aethylester d. 3-Methyl-1,4-Benzthiazin-2-Carbonsäure? Sm. 143° (B. 30, 2397). — \*II, 474.  
 $C_{12}H_{13}O_2N_2Br$  1) 2,4-Diketo-3- $[\beta$ - oder  $\gamma$ -Brompropyl]-1-Phenyltetrahydroimidazol. Sm. 158—159° (J. pr. [2] 66, 248 C. 1902 [2] 1124).  
 $C_{12}H_{13}O_2N_3Br_2$  1) 3,5-Dibrom-3,5-Dicyan-2,6-Diketo-4-Methyl-4-Butylhexahydropyridin. Sm. 128—129° (C. 1901 [1] 579).

- $C_{11}H_{13}O_2N_3Br_2$  2) 3, 5-Dibrom-3, 5-Dicyan-2, 6-Diketo-1-Methyl-1, 4-Diäthylhexahydropyridin. Sm. 112—115° (*C.* 1901 [1] 379).
- $C_{11}H_{13}O_2N_3J_2$  3) 3, 5-Dibrom-3, 5-Dicyan-2, 6-Diketo-4-Aethyl-4-Propylhexahydropyridin. Sm. 159—161° (*C.* 1901 [1] 580).
- $C_{12}H_{13}O_3NS$  1) Jodmethylat d. 5-Jod-3, 4-Dimethyl-1-[4-Nitrophenyl]pyrazol (*B.* 34, 1302).
- \* 1) 1-Dimethylamidonaphtalin-5-Sulfonsäure +  $H_2O$  (*B.* 35, 978 *C.* 1902 [1] 876).
- 6) 1-Dimethylamidonaphtalin-4-Sulfonsäure +  $H_2O$  (*B.* 35, 977 *C.* 1902 [1] 876).
- 7) 1-Dimethylamidonaphtalin-7-Sulfonsäure +  $H_2O$ . Na (*B.* 35, 983 *C.* 1902 [1] 877).
- 8) 1-Dimethylamidonaphtalin-8-Sulfonsäure +  $H_2O$ . Na +  $H_2O$  (*B.* 35, 983 *C.* 1902 [1] 877).
- 9) Amid d. 1-Oxynaphtalinäthyläther-4-Sulfonsäure. Sm. 167° (*B.* 34, 3181). — \*II, 511.
- 10) Amid d. 2-Oxynaphtalinäthyläther-7-Sulfonsäure. Sm. 172° (*B.* 29 [2] 665). — \*II, 532.
- $C_{11}H_{13}O_3NS_2$  1) Benzoyldithiocarbaminsäureäthylacetat. Sm. 128° (*Am.* 26, 197).
- $C_{11}H_{13}O_3N_2S$  2) 4, 4'-Diamidodiphenylamin-3-Sulfonsäure (*C.* 1901 [1] 768).
- $C_{12}H_{13}O_4NS$  1) *p*-Amido-2-Oxynaphtalinäthyläther-6- u. 7-Sulfonsäure (D.R.P. 69 155). — \*II, 533.
- 2) 6-Aethylamido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 95 624, 98 842, 99 501). — \*II, 515.
- $C_{12}H_{13}O_4N_3S$  1) 2', 4'-Diamido-4-Oxydiphenylamin-3-Sulfonsäure (*C.* 1901 [2] 1107).
- $C_{11}H_{13}O_6N_3S_2$  2) 4, 4'-Diamidodiphenylamin-2, 3'-Disulfonsäure (*C.* 1901 [1] 768).
- $C_{12}H_{13}O_7N_2S_2$  1) 8-Aethylamido-1-Oxynaphtalin-3, 6-Disulfonsäure (D.R.P. 73 128). — \*II, 517.
- 2) 8-Aethylamido-1-Oxynaphtalin-4, 6-Disulfonsäure (D.R.P. 107 516). — \*II, 518.
- $C_{12}H_{14}ON_2Cl_2$  1) Verbindung (aus Di[Chlormethyl]äther u. Pyridin). +  $PtCl_4$ , +  $2AuCl_3$  (*A.* 316, 194).
- $C_{12}H_{14}ON_2Br_2$  2) Verbindung (aus Di[Brommethyl]äther u. Pyridin). Sm. 145° (*A.* 316, 194).
- $C_{12}H_{14}O_2NCl$  5) Benzoat d.  $\beta$ -Chlor- $\gamma$ -Oximido- $\beta$ -Methylbutan. Sm. 53—54° (*B.* 35, 3736 *C.* 1902 [2] 1405).
- 6) 2-Chlorphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 119°; Sd. 148—149°<sub>373</sub> (*Bl.* [3] 27, 451 *C.* 1902 [2] 66).
- 7) 4-Chlorphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 65°; Sd. 284—285° u. Zers. (*Bl.* [3] 27, 451 *C.* 1902 [2] 66).
- $C_{12}H_{14}O_2N_2S_2$  2) 2-Methylphenylamidoformylmethylester d. Acetylamidodithioameisensäure. Sm. 200° u. Zers. (*Am.* 28, 147 *C.* 1902 [2] 794).
- $C_{12}H_{14}N_2ClJ$  3) Jodmethylat d. 5-Chlor-3, 4-Dimethyl-1-Phenylpyrazol. Sm. 235° (*B.* 34, 1301).
- $C_{12}H_{14}N_2Cl_2Se$  1) 4-Methylselenopyrindichlorid. Sm. 207—208° (*A.* 320, 44 *C.* 1902 [1] 667).
- $C_{12}H_{13}ONS_2$  1) Diäthyläther d. Benzoylimidodimerkaptomethan. Sm. 220—221°<sub>17</sub> (*C.* 1901 [2] 275).
- 2) Isobutylester d. Benzoylamidodithioameisensäure. Sm. 80—81° (*C.* 1901 [2] 276).
- $C_{12}H_{15}O_2NS$  5) 2, 5-Dimethylphenylamid d. Acetylrhodanessigsäure. Sm. 139 bis 140° (*Am.* 28, 154 *C.* 1902 [2] 794).
- $C_{12}H_{15}O_2N_2Cl$  1) Phenylamidoformiat d.  $\beta$ -Chlor- $\gamma$ -Oximido- $\beta$ -Methylbutan. Sm. 109° (*B.* 35, 3736 *C.* 1902 [2] 1405).
- $C_{12}H_{13}O_3NBr_2$  1) Amid d. Oxyessig-2-Methoxyl-4-[ $\beta$ - $\gamma$ -Dibrompropyl]phenyläthersäure. Sm. 85° (*M.* 22, 137).
- $C_{12}H_{16}O_6N_2Br$  1) Diäthyläther d. *p*-Brom-*p*-Dinitro-2, 3-Dioxy-1-Aethylbenzol. Sm. 65—66° (*M.* 23, 191 *C.* 1902 [1] 1331).
- $C_{12}H_{15}O_7N_2Br$  1) Triäthyläther d. 6-Brom-4, 5-Dinitro-1, 2, 3-Trioxybenzol. Sm. 74° (*M.* 23, 197 *C.* 1902 [1] 1332).
- $C_{12}H_{15}N_2ClS$  1) Methyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Chlormethylat. Sm. 125° u. Zers. 2 +  $PtCl_4$  (*A.* 320, 16 *C.* 1902 [1] 665).



- $C_{12}H_{15}N_2JS$  2) Methyläther d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Jodmethylat +  $H_2O$ . Sm. 90—92° (192° wasserfrei) (*A.* 320, 1327 *C.* 1902 [1] 664).
- $C_{12}H_{15}N_2JSe$  1) Methyläther d. 5-Seleno-3-Methyl-1-Phenylpyrazol-2-Jodmethylat. Sm. 197° (*A.* 320, 36 *C.* 1902 [1] 666).
- $C_{12}H_{16}ONCl$  1) Nitrosochlorid d.  $\alpha$ -[2,4-Dimethylphenyl]- $\alpha$ -Buten. Sm. 135° (*B.* 35, 2258 *C.* 1902 [2] 274).
- 2) Nitrosochlorid d.  $\alpha$ -[2,4,6-Trimethylphenyl]propen. Sm. 146,5° (*B.* 35, 2256 *C.* 1902 [2] 274).
- $C_{12}H_{16}ONBr$  12) 2-Brom-4-Methylphenylamid d. Isovaleriansäure. Sm. 95° (*C.* 1902 [2] 505).
- $C_{12}H_{16}ON_2S$  6) Äethyläther d. Acetylimidomethylphenylamidomerkaptomethan (Acetylmethylphenylthioläthylpseudothioharnstoff). Sm. 66° (*Am.* 26, 413).
- $C_{12}H_{16}O_3NCl$  1) Diäthyläther d. 6-Chlor-4-Acetylamido-1,3-Dioxybenzol. Sm. 136° (*D.R.P.* 135331 *C.* 1902 [2] 1351).
- $C_{12}H_{16}O_4NBr$  2) Diäthyläther d. *p*-Brom-*p*-Nitro-2,3-Dioxy-1-Äethylbenzol. Sm. 78° (*M.* 23, 190 *C.* 1902 [1] 1331).
- $C_{12}H_{16}O_6NBr$  1) Triäthyläther d. 4-Brom-5-Nitro-1,2,3-Trioxybenzol. Sm. 104° (*M.* 23, 196 *C.* 1902 [1] 1332).
- $C_{12}H_{16}Cl_2BrJ$  1)  $\alpha\beta$ -Dichloräthyl-4-tert. Butylphenyljodoniumbromid. Sm. 123° (*B.* 34, 3677).
- $C_{12}H_{17}ONS$  7) Phenylamid d.  $\alpha$ -Merkaptobutteräthyläthersäure. Sm. 68° (*J. pr.* [2] 66, 192 *C.* 1902 [2] 933).
- $C_{12}H_{17}OCl_2J$  1)  $\alpha\beta$ -Dichloräthyl-4-tert. Butylphenyljodoniumhydroxyd. Salze siehe (*B.* 34, 3677).
- $C_{12}H_{17}O_2ClS$  1) Chlorid d. 1,2,4-Triäthylbenzol-*p*-Sulfonsäure. Sd. 202—204°<sub>32</sub> (*J. pr.* [2] 65, 399 *C.* 1902 [1] 1324).
- 2) Chlorid d. 1,3,5-Triäthylbenzol-2-Sulfonsäure. Sd. 183°<sub>25</sub> (*J. pr.* [2] 65, 397 *C.* 1902 [1] 1324).
- $C_{12}H_{17}O_3N_2Br$  1) Äethyläther d. 5-Brom-2-Nitro-6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 75°.  $HCl$  (*B.* 35, 2796 *C.* 1902 [2] 989).
- $C_{12}H_{17}O_4NS$  4) 1- $\alpha$ -Phenylsulfonamido- $\gamma$ -Methylvaleriansäure (1-Benzolsulfonleucin). Sm. 119—120° (*B.* 34, 448).
- $C_{12}H_{17}O_6NS_2$  1)  $\alpha\alpha$ -Di[Äethylsulfon]- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 140—142° (*B.* 35, 2349 *C.* 1902 [2] 517).
- 2)  $\alpha\alpha$ -Di[Äethylsulfon]- $\alpha$ -[4-Nitrophenyl]äthan. Sm. 108—110° (*B.* 35, 2350 *C.* 1902 [2] 517).
- $C_{12}H_{18}ON_2S$  3) Ämyläther d. 4-Oxyphenylthioharnstoff. Sm. 157° (*B.* 34, 1943).
- $C_{12}H_{18}O_2NJ$  2) Methyl ester d. Dimethyl-4-Methylphenyljodammoniumessigsäure. Sm. 124—125° u. Zers. (*B.* 35, 771 *C.* 1902 [1] 720).
- 3) Äethyl ester d. Dimethylphenyljodammoniumessigsäure. Zers. bei 126—127° (*A.* 318, 109; *B.* 35, 770 *C.* 1902 [1] 720).
- $C_{12}H_{18}O_2ClAs$  1) Diäthylphenylehlorarsoniumessigsäure. Sm. 135°. 2 +  $PtCl_4$  (*A.* 320, 297 *C.* 1902 [1] 920).
- $C_{12}H_{18}O_2JAs$  1) Methyl diäthylphenylarsoniumjodid-4-Carbonsäure. Sm. 131° (*A.* 320, 311 *C.* 1902 [1] 921).
- $C_{12}H_{18}O_4NBr$  1) Diacetat (aus Bromdihydroscopolin). ( $HCl$ ,  $AuCl_3$ ) (*C.* 1902 [2] 845).
- $C_{12}H_{19}ON_2J$  1) Trimethyl-3-Acetylamido-4-Methylphenylammoniumjodid. Sm. 193,5° (*B.* 34, 1137).
- $C_{12}H_{19}O_2NS$  13) Amid d. 1,2,4-Triäthylbenzol-*p*-Sulfonsäure. Sm. 111° (*J. pr.* [2] 65, 400 *C.* 1902 [1] 1324).
- 14) Amid d. 1,3,5-Triäthylbenzol-2-Sulfonsäure. Sm. 118,5° (*J. pr.* [2] 65, 397 *C.* 1902 [1] 1324).
- 15) Hexylamid d. Benzolsulfonsäure (aus  $\gamma$ -Amido- $\beta\beta$ -Dimethylbutan). Sm. 96,5° (*C.* 1899 [2] 474). — \*II, 70.
- $C_{12}H_{19}O_4NS_2$  1)  $\alpha\alpha$ -Di[Äethylsulfon]- $\alpha$ -[3-Amidophenyl]äthan. Sm. 136—138 (*B.* 35, 2354 *C.* 1902 [2] 518).
- $C_{12}H_{19}O_5JZn$  1) Verbindung (aus Acetessigsäureäthylester). Sm. 57—59° (*C.* 1901 [2] 1203).
- $C_{12}H_{20}ONCl$  1) Chlormethylat d. Methylephedrin. 2 +  $PtCl_4$ , +  $AuCl_3$  (*Ar.* 240, 491 *C.* 1902 [2] 1327).
- $C_{12}H_{20}ONJ$  1) Jodmethylat d. Methylephedrin. Sm. 203° (*Ar.* 240, 491 *C.* 1902 [2] 1327).

- $C_{12}H_{20}O_4N_2S$  1)  $\beta\beta$ -Diäthoxyläthylhydrazid d. Benzolsulfonsäure. Sm. 68° (B. 27, 183). — \* II, 71.
- $C_{12}H_{20}Cl_2JAS$  1) Dichlorid d. Triäthylphenylarsoniumjodid. Sm. 79° (A. 320, 296 C. 1902 [1] 920).
- $C_{12}H_{22}O_2NJ$  2) Jodmethylat d. Lupininsäuremethylester. Sm. 225—226° u. Zers. (B. 35, 1920 C. 1902 [2] 132).
- $C_{12}H_{22}O_3N_6Fe$  1) Verbindung (aus Ferrocyanwasserstoff u. Äthylalkohol) (B. 35, 1203 C. 1902 [1] 997).
- $C_{12}H_{24}ONJ$  1) Jodmethylat d. Methyllypinin. Sm. 224—225° (B. 35, 1923 C. 1902 [2] 133).
- $C_{12}H_{24}ON_2S$  1) Methyläther d. Acetylimidodiisobutylamidomerkaptomethan (Acetyl-diisobutylthiolmethylpseudothiobarnstoff). Sd. 175—177°<sub>22</sub> (Am. 28, 411).
- $C_{12}H_{26}O_2NJ$  2) Methylester d. Tripropyljodammoniumessigsäure. Sm. 173 bis 174° (B. 35, 773 C. 1902 [1] 720).

## — 12 V —

- $C_{12}H_5O_2N_2ClJ_4$  1) 5,5',p-Trijod-3,3'-Dinitrodiphenyljodoniumchlorid. Sm. 85°. +  $HgCl_2$ , 2 +  $PtCl_4$  (B. 34, 3414).
- $C_{12}H_5O_4N_2BrJ_4$  1) 5,5',p-Trijod-3,3'-Dinitrodiphenyljodoniumbromid. Sm. 101° (B. 34, 3414).
- $C_{12}H_6O_4N_2Cl_2S_2$  1) Di[4-Chlor-2-Nitrophenyl]disulfid. Sm. 212° (A. 197, 79; R. 20, 131; R. 20, 401 C. 1902 [1] 417).
- $C_{12}H_6O_4N_2Br_2S$  2) Di[5-Chlor-2-Nitrophenyl]disulfid. Sm. 171° (R. 20, 133).
- $C_{12}H_6O_4N_2Br_2S$  1) Di[4-Brom-2-Nitrophenyl]sulfid. Sm. 165° (R. 20, 401 C. 1902 [1] 417).
- $C_{12}H_6O_4N_2Br_2S_2$  1) Di[4-Brom-2-Nitrophenyl]disulfid. Sm. 174° (R. 20, 132).
- $C_{12}H_6O_5N_2Br_2S$  1) Di[4-Brom-2-Nitrophenyl]sulfoxyd. Sm. 238° (R. 20, 402 C. 1902 [1] 417).
- $C_{12}H_6O_6N_3ClS$  1) 4'-Chlor-2,4,2'-Trinitrodiphenylsulfid. Sm. 141° (R. 20, 407 C. 1902 [1] 417).
- $C_{12}H_6O_6N_3BrS$  1) 4'-Brom-2,4,2'-Trinitrodiphenylsulfid. Sm. 142° (R. 20, 406 C. 1902 [1] 417).
- $C_{12}H_6O_7N_3BrS$  1) 4'-Brom-2,4,2'-Trinitrodiphenylsulfoxyd. Sm. 220° (R. 20, 407 C. 1902 [1] 417).
- $C_{12}H_7O_2N_2Br_6As$  1) Di[p-Tribrom-p-Amidophenyl]arsinsäure. Sm. 287° (A. 321, 153 C. 1902 [2] 43).
- $C_{12}H_7O_4N_2BrS$  1) 4-Brom-2,2'-Dinitrodiphenylsulfid. Sm. 131° (R. 20, 407 C. 1902 [1] 417).
- $C_{12}H_6ON_2Cl_2Hg_2$  1) 4-Oxyazobenzol-p-Diphenylquecksilberchlorid. + Essigsäure. (Sm. 165—170°) (C. 1901 [1] 453; B. 35, 2863 C. 1902 [2] 1039).
- $C_{12}H_3ONClJ_2$  1) 5-Jod-3-Nitrodiphenyljodoniumchlorid. Sm. 131°. +  $HgCl_2$ , 2 +  $PtCl_4$  (B. 34, 3410).
- $C_{12}H_3ON_2BrJ_2$  1) 5-Jod-3-Nitrodiphenyljodoniumbromid. Sm. 211° (B. 34, 3411).
- $C_{12}H_3O_4N_2ClAs$  1) Di[p-Nitrophenyl]chlorarsin. Sm. 112° (A. 321, 142 C. 1902 [2] 42).
- $C_{12}H_3O_4N_2BrAs$  1) Di[p-Nitrophenyl]bromarsin. Sm. 93° (A. 321, 143 C. 1902 [2] 42).
- $C_{12}H_3ON_2ClHg$  1) 2-Oxyazobenzol-5-Quecksilberchlorid. Sm. 130—131° (C. 1901 [1] 452).
- 2) 4-Oxyazobenzol-3-Quecksilberchlorid +  $1\frac{1}{2}H_2O$ . Sm. 125° (147° wasserfrei).  $HCl$ , + Essigsäure (126—128°) (C. 1901 [1] 452; B. 35, 2860 C. 1902 [2] 1038).
- 3) isom. Oxyazobenzolquecksilberchlorid +  $H_2O$  (B. 35, 2861 C. 1902 [2] 1038).
- $C_{12}H_3O_2N_2BrS$  \*1) 4-Brom-1-Phenylsulfondiazobenzol. Sm. 115—116° (B. 35, 271 C. 1902 [1] 526).
- $C_{12}H_3O_2N_2BrS_2$  \*2) 4-Brom-1-Phenylthiosulfondiazobenzol. Zers. bei 99—100° (B. 35, 271 C. 1902 [1] 526).
- $C_{12}H_3O_2N_2Br_4As$  1) Di[p-Dibrom-p-Amidophenyl]arsinsäure. Sm. 187° (A. 321, 153 C. 1902 [2] 43).
- $C_{12}H_{10}O_2NCIS$  \*2) 4-Chlorphenylamid d. Benzolsulfonsäure. Sm. 121° (C. 1902 [1] 349).

- $C_{12}H_{10}O_2NCIS$  3) 2-Chlorphenylamid d. Benzolsulfonsäure. Sm. 129—130° (C. 1902 [1] 349).  
 4) 3-Chlorphenylamid d. Benzolsulfonsäure. Sm. 121° (C. 1902 [1] 349).  
 $C_{12}H_{10}O_4N_2Br_2S_3$  1) Diäthylester d. Säure  $C_8H_2O_4N_2Br_2S_3$  (aus 3,4-Dicyan 2,5-Dithiocarbonyltetrahydrothiophen-3,4-Dicarbonsäurediäthylester). Sm. 95 bis 96° (B. 34, 1048).  
 $C_{12}H_{11}O_2NBr_2S$  1) Acetat d. 3,6-Dibrom-5-Oxy-2-Rhodanmethyl-1,4-Dimethylbenzol. Sm. 145—146° (B. 34, 4276 C. 1902 [1] 309). — \*II, 691.

### C<sub>13</sub>-Gruppe.

- $C_{13}H_{10}$  \*1) Fluoren. Sm. 115°. K (B. 34, 1659; C. 1901 [2] 902; Bl. [3] 27, 877 C. 1902 [2] 991).  
 $C_{13}H_{12}$  7)  $\beta$ -[1-Naphtyl]propen. Sd. 125°, Pikrat (Bl. [3] 25, 498).  
 8)  $\beta$ -[2-Naphtyl]propen. Sm. 45—47°; Sd. 138—140°. Pikrat (Bl. [3] 25, 498).  
 $C_{13}H_{14}$  6) isom. Trimethylnaphtalin. Sm. —20°; Sd. 290°. Pikrat (Sm. 119°) (C. 1898 [1] 812). — \*II, 107.  
 $C_{13}H_{16}$  7)  $\beta$ -Phenyl- $\epsilon$ -Methyl- $\beta$ -Hexen. Sd. 121°<sub>20</sub> (B. 35, 2644 C. 1902 [2] 587).  
 8)  $\alpha$ -[2,4,6-Trimethylphenyl]- $\alpha$ -Buten. Sd. 118—119°<sub>14</sub> (B. 35, 2260 C. 1902 [2] 275).  
 9)  $\beta$ -[2,4,5-Trimethylphenyl]- $\beta$ -Buten. Sd. 234—236° (B. 35, 2645 C. 1902 [2] 585).  
 $C_{13}H_{20}$  10)  $\beta$ -Butyl-2,3-Dihydroinden. Sd. 237—240° (D.R.P. 80158). — \*II, 89.  
 11) 1,3-Diäthyl-4-Isopropylbenzol. Sd. 224—226° (G. 32 [1] 306 C. 1902 [1] 1404).  
 12)  $\epsilon$ -Phenyl- $\beta$ -Methylhexan. Sd. 223° (B. 35, 2645 C. 1902 [2] 587).  
 13)  $\alpha$ -[2,4,6-Trimethylphenyl]- $\alpha$ -Buten. Sm. 237—241° (B. 35, 2259 C. 1902 [2] 275).  
 $C_{13}H_{26}$  2) Tridekanaphten. Sd. 230—232° (Am. 25, 281).  
 $C_{13}H_{28}$  \*1) Tridekan. Sd. 226°<sub>780</sub> (Am. 28, 170 C. 1902 [2] 1081).

### — 13 II —

- $C_{13}H_2Cl_6$  1)  $\alpha\alpha$ -Dichlordi[2,5-Dichlorphenyl]methan. Sm. 173—174° (Am. 26, 497 C. 1902 [1] 463).  
 $C_{13}H_2O$  \*2) 9-Ketofluoren. Sm. 86° (A. 321, 345 C. 1902 [2] 61).  
 $C_{13}H_3O_2$  \*1) 1-Oxy-9-Ketofluoren. Sm. 115° (M. 23, 895 C. 1902 [2] 1472).  
 \*6) Xanthon. 2 +  $Al_2Br_6$  (Am. 27, 254 C. 1902 [1] 1292).  
 12) 2-Oxy-9-Ketofluoren. Sm. 210—211° (B. 34, 1767).  
 13) 1,4-Naphtopyron ( $\alpha$ -Naphtochromon). Sm. 125° (B. 35, 860 C. 1902 [1] 812; B. 35, 2887 Ann. C. 1902 [2] 1054).  
 $C_{13}H_3Cl_4$  2)  $\alpha\alpha$ -Dichlordi[4-Chlorphenyl]methan. Sd. 217—219°<sub>33</sub> (Am. 26, 495 C. 1902 [1] 463).  
 $C_{13}H_3N$  \*1) Akridin. HJ (J. pr. [2] 64, 485 C. 1902 [1] 124; G. 32 [2] 199 C. 1902 [2] 1477).  
 \*5)  $\alpha$ -Naphtochinolin (G. 32 [2] 200 C. 1902 [2] 1477).  
 \*6)  $\beta$ -Naphtochinolin.  $H_2SO_4$  (B. 35, 297 C. 1902 [1] 591; G. 32 [2] 201 C. 1902 [2] 1477).  
 $C_{13}H_{10}O$  \*4) Xanthen. Sm. 100°. 2 +  $Al_2Br_6$  (C. r. 133, 881 C. 1902 [1] 124; Am. 27, 250 C. 1902 [1] 1291).  
 11) 2-Oxyfluoren. Sm. 171° (B. 34, 1761).  
 $C_{13}H_{10}O_2$  \*1) 9-Oxyxanthen (Xanthidrol) (B. 34, 3301; B. 34, 3821 C. 1902 [1] 46; C. r. 133, 881 C. 1902 [1] 124).  
 \*3) 2-Oxydiphenylketon. Sm. 39° (B. 35, 2811 C. 1902 [2] 1117).  
 16)  $\gamma$ -Oxy- $\gamma$ -[2-Furanyl]- $\alpha$ -Phenylpropin. Sd. 186—187°<sub>12</sub> (C. r. 134, 356 C. 1902 [1] 629).  
 17) Xanthoxoniumhydrat. Salze siehe (B. 34, 3302).  
 $C_{13}H_{10}O_3$  \*1) 2,4-Dioxydiphenylketon. Sm. 144° (B. 34, 2375).  
 \*21) Dimethylester d. Kohlensäure. Sm. 78°; Sd. 167—168°<sub>15</sub> (B. 35, 3434 C. 1902 [2] 1303).  
 25) Methylester d. Naphtalin-1-Carbonsäure-8-Carbonsäurealdehyd. Sm. 105° (M. 22, 988).

- $C_{13}H_{10}O_4$  \*12) Benzoat d. Maltol. Sm. 114—115° (*B.* 34, 1805).  
 16)  $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadien- $\beta$ -Carbonsäure. Sm. 195—197° u. Zers.  $Mg + 8H_2O$ ,  $Ba + 6H_2O$  (*B.* 34, 1631).  
 17) Aldehyd d. 2-Benzoxylfuran-5-Carbonsäure. Sm. 56—57° (*Soc.* 79, 811).
- $C_{13}H_{10}O_5$  \*10) Methylester d. 3-Oxy-1,4-Napthochinon-2-Methylcarbonsäure. Sm. 144° (*M.* 23, 691 *C.* 1902 [2] 1120).  
 11) Excoëcaron. Sm. bei 250° (*Soc.* 81, 214 *C.* 1902 [1] 532, 822).  
 12) 2-Methyl-4-Phenylfuran-3,5-Dicarbonsäure. Zers. bei 224° (*B.* 35, 788 *C.* 1902 [1] 761).  
 13) Anhydrid d.  $\gamma$ -Acetoxyl- $\alpha$ -Phenylpropen- $\beta\gamma$ -Dicarbonsäure (*A.* d. Acetylbenzaläpfelsäure). Sm. 116,5—117° (*A.* 319, 190 *C.* 1902 [1] 106).  
 14) Monosalicylat d. 1,2,3-Trioxylbenzol. Sm. 41° (*D.R.P.* 43713). — \*II, 889.
- $C_{13}H_{10}O_6$  12)  $\alpha\gamma$ -Lakton d.  $\alpha$ -Benzoxyl- $\gamma$ -Oxy- $\alpha$ -Buten- $\alpha\gamma$ -Dicarbonsäure. Sm. 114—118° (*A.* 317, 10).  
 $C$  56,1 —  $H$  3,6 —  $O$  40,3 — *M. G.* 278.
- $C_{13}H_{10}O_7$  1) Methylester d. 5-Acetoxyl-1-Methylbenzol-2,3,4-Tricarbonsäure-2,3- oder 3,4-Anhydrid. Sm. 136—138° (*B.* 35, 2912 *C.* 1902 [2] 1042).
- $C_{13}H_{10}N_2$  \*3)  $\alpha$ -Carbodiphenylimid (*J. pr.* [2] 64, 261).  
 \*5)  $\gamma$ -Carbodiphenylimid (*J. pr.* [2] 64, 264).  
 21) 1-Phenylbenzimidazol. Sm. 97° ( $HCl$ ,  $HgCl_2$ ), ( $2HCl$ ,  $PtCl_4$ ), Pikrat (*B.* 34, 4204 *C.* 1902 [1] 262).
- $C_{13}H_{10}N_4$  3) 4-Phenylamidodiazobenzolcyanid. Sm. 129° (*B.* 35, 895 *C.* 1902 [1] 867).
- $C_{13}H_{10}Br_4$  1) 3,4,5-Tribrom-1-Brommethyl-2,6-Dimethylnaphtalin. Sm. 217 bis 220° (*B.* 32, 2439). — \*II, 107.
- $C_{13}H_{11}N$  \*4) 2-Amidofluoren. Sm. 129° (*B.* 34, 1759).  
 \*6)  $\alpha$ -Phenyl- $\beta$ -[2-Pyridyl]äthen. Sm. 90—91° (87°).  $HCl + 4H_2O$ , ( $2HCl$ ,  $PtCl_4 + 2H_2O$ ), ( $HCl$ ,  $AuCl_3$ ) (*B.* 34, 2235; *Ar.* 240, 246 *C.* 1902 [2] 129).
- $C_{13}H_{11}N_3$  \*11) 5,10-Dihydroakridin (*G.* 32 [2] 199 *C.* 1902 [2] 1477).  
 \*4) 2-[4-Amidophenyl]benzimidazol. Sm. 240°.  $2HCl$ ,  $HNO_3$  (*B.* 34, 2959).  
 \*9) 2-[3-Amidophenyl]benzimidazol. Sm. 251—252°.  $2HCl$ ,  $HNO_3$  (*B.* 34, 2958).  
 11) 4-Methylenamidoazobenzol? Sm. 196—200° (*B.* 35, 1433 *C.* 1902 [1] 1162).  
 12) 6-[2,4-Dinitrophenyl]amidoindazol. Sm. 261° (*C.* 1901 [1] 488).  
 3) 2-Phenylhydrazonmethyl-1-Diazobenzolimid. Sm. 101,5—102° (*B.* 34, 1335).
- $C_{13}H_{12}O$  \*1)  $\alpha$ -Oxydiphenylmethan. Sm. 67° (*B.* 34, 1957; *B.* 35, 1990 *C.* 1902 [2] 367).  
 9) 4'-Oxy-4-Methylbiphenyl. Sm. 155°; *Sd.* 330° (*D.R.P.* 58001). — \*II, 539.  
 10) Methyläther d. 2-Oxybiphenyl. Sm. 29°; *Sd.* 274° (*M.* 22, 570). — \*II, 538.  
 11) Methyläther d. 4-Oxybiphenyl. Sm. 90° (*A.* 322, 167 *C.* 1902 [2] 283).  
 $C_{13}H_{12}O_2$  23) 2,4'-Dioxytetramethylenumbelliferon. Sm. 117—118° (*J. pr.* [2] 65, 314 *C.* 1902 [1] 1350).  
 24) 3-Acetyl-2-Methyl-5-Phenylfuran. Sm. 56—57°; *Sd.* 179°<sub>18</sub> (*C. r.* 134, 844 *C.* 1902 [1] 1164).
- $C_{13}H_{12}O_3$  15) Aethyl-1,8-Dioxy-2-Naphtylketon. Sm. 101—102° (*C.* 1901 [2] 1287).  
 16)  $\alpha\beta$ -Cyklotetramethylenumbelliferon. Sm. 203—204° (*A.* 317, 109).  
 17) 4-Keto-2-Methyl-2,3-Dihydro-5-Naphtofuran +  $H_2O$ . Sm. 180° (wasserfrei) (*A.* 317, 89).  
 18)  $\alpha$ -Oxy- $\alpha$ -[1-Naphtyl]propionsäure +  $\frac{1}{2}H_2O$ . Sm. 143° (*C. r.* 135, 628 *C.* 1902 [2] 1359).  
 19) Lakton d.  $\delta$ -Oxy- $\alpha$ -[4-Methoxyphenyl]- $\alpha\gamma$ -Pentadien- $\beta$ -Carbonsäure (*α*-Aniseryl- $\delta^2$ -Angelikalakton). Sm. 98,5—99° (*A.* 319, 185 *C.* 1902 [1] 106).  
 20) 3-Acetat d. 2,3-Dioxynaphtalin-2-Methyläther. Sm. 117° (*J. pr.* [2] 65, 536 *C.* 1902 [2] 368).

- $C_{13}H_{12}O_3$  21) Acetat d. 7-Oxy-4-Methylen-2-Methyl-1,4-Benzpyran. Sm. 150 bis 155° (B. 34, 1202).
- $C_{13}H_{12}O_4$  \*5) Methyläther d. 7-Oxy-3-Acetyl-2-Methyl-1,4-Benzpyran. Sm. 160° (B. 34, 107).
- 18) Methylphenylfulvendiperoxyd (B. 34, 2937).
- 19) Methyl- $\alpha\beta$ -Cyklotrimethylenlaphnetin. Sm. 207—210° (A. 317, 91).
- 20)  $\alpha$ -Phenyl- $\alpha\gamma$ -Pentadien- $\delta$ -Dicarbonsäure (Cinnamenylitakonsäure). Sm. 215—218° u. Zers.  $Ca + H_2O$  (B. 34, 2189).
- 21)  $\alpha\delta$ -Di-[2-Furanyl]- $\alpha$ -Buten- $\gamma$ -Carbonsäure (Furfurylfurisocrotonsäure). Sm. 66—67° (B. 34, 1632).
- 22) Methylester d.  $\alpha$ -[3,4-Dioxyphenyl]- $\alpha\gamma$ -Butadien-3,4-Methylenäther- $\delta$ -Carbonsäure. Sm. 140° (M. 22, 800).
- 23) Acetat d. 6-Oxy-2-Aethyl-1,4-Benzpyran. Sm. 92—93° (B. 34, 1694).
- 24) Acetat d. 7-Oxy-2-Aethyl-1,4-Benzpyran. Sm. 67—68° (B. 34, 1697).
- 25) Acetat d. 7-Oxy-2,3-Dimethyl-1,4-Benzpyran. Sm. 116° (B. 34, 2948).
- $C_{13}H_{12}O_5$  7) Excoëcarin. Sm. 219—221° (Soc. 81, 212 C. 1902 [1] 532, 821).
- 8)  $\alpha\gamma$ -Lakton d.  $\delta$ -Keto- $\gamma$ -Oxy- $\gamma$ -Phenylpentan- $\alpha\beta$ -Dicarbonsäure. Sm. 141—142°. Ba (A. 321, 98 C. 1902 [1] 979).
- $C_{13}H_{12}O_6$  8) Säure (aus d.  $\delta$ -Phenyl- $\alpha$ -Buten- $\alpha\beta\gamma\gamma$ -Tetracarbonsäureäthylester). Ag<sub>3</sub> (Soc. 81, 1214 C. 1902 [2] 888).
- $C_{13}H_{12}O_8$  7) 1,2,4-Triacetoxylbenzol- $\beta$ -Carbonsäure. Sm. 162—163° (B. 34, 2841).
- $C_{13}H_{12}N_2$  \*1) Diphenylformamidin. Sm. 137° (143°).  $HCl + 3H_2O$ , (2HCl,  $PtCl_4$ ) (B. 35, 728 C. 1902 [1] 717; B. 35, 2498 C. 1902 [2] 436).
- \*5) 2,7-Diamidofluoren. Sm. 164° (B. 35, 3289 C. 1902 [2] 1263).
- \*7) stab.  $\alpha$ -Phenyl- $\beta$ -Benzylidenhydrazin. Sm. 156° (B. 35, 3042 C. 1902 [2] 1107).
- \*11) 4-Methylazobenzol. Sm. 69,5—70,5° (B. 35, 1426 C. 1902 [1] 1206).
- \*12)  $\alpha$ -[3-Amidophenyl]- $\beta$ -[2-Pyridyl]äthen. 2HCl + 2H<sub>2</sub>O (Ar. 240, 254 C. 1902 [2] 130).
- 16) 1,2-Diamidofluoren. Sm. 193°. HCl (B. 35, 3287 C. 1902 [2] 1262).
- 17) 2-Hydrazidofluoren. Sm. 170—171° (B. 34, 1762).
- 18)  $\alpha$ -[2-Amidophenyl]- $\beta$ -[2-Pyridyl]äthen. 2HCl (Ar. 240, 256 C. 1902 [2] 130).
- 19)  $\alpha$ -[4-Amidophenyl]- $\beta$ -[2-Pyridyl]äthen. Fl. 2HCl (A. 240, 251 C. 1902 [2] 130).
- 20) 3-Aethyl- $\alpha$ -Naphtimidazol. Fl. HCl (B. 34, 934).
- 21) 1-Aethyl- $\beta$ -Naphtimidazol. Sm. 129—130°. (2HCl,  $PtCl_4$ ), HJ (B. 34, 932).
- 22) 1,2-Dimethyl- $\beta$ -Naphtimidazol. Sm. 143—144° (B. 34, 935).
- $C_{13}H_{12}N_4$  \*1) Formazylwasserstoff. Sm. 119—120°. Ag, +  $AgNO_3$  (J. pr. [2] 65, 131 C. 1902 [1] 995).
- 8) 2-[2-Hydrazidophenyl]benzimidazol. Sm. 182°. 2HCl, 2HNO<sub>3</sub> (B. 34, 2965).
- 9) 2-[3-Hydrazidophenyl]benzimidazol. Sm. 245°. 2HCl, 2HNO<sub>3</sub> (B. 34, 2966).
- 10) 2-[4-Hydrazidophenyl]benzimidazol. Sm. 305° u. Zers. 2HCl (B. 34, 2967).
- $C_{13}H_{12}J_2$  \*2) Phenyl-4-Methylphenyljodoniumjodid. Sm. 152—158° (Soc. 81, 1353).
- $C_{13}H_{13}N$  \*4)  $\alpha$ -Amidodiphenylmethan. Sd. 301—302°<sub>716</sub> (299—301°). HCl (C. 1901 [1] 1002; B. 35, 1515 C. 1902 [1] 1207).
- \*10) Phenylbenzylamin (B. 35, 731 C. 1902 [1] 863; B. 35, 1514 C. 1902 [1] 1207).
- \*17) 1,2,3,4-Tetrahydro- $\alpha$ -Naphtochinolin (G. 32 [2] 200 C. 1902 [2] 1477).
- \*18) 1,2,3,4-Tetrahydro- $\beta$ -Naphtochinolin (G. 32 [2] 201 C. 1902 [2] 1477).
- $C_{13}H_{13}N_3$  \*3) Phenylimido- $\beta$ -Phenylhydrazidomethan. Sm. 114° (B. 35, 2503 C. 1902 [2] 437).
- 19) 2-Methyldiazoamidobenzol. Fl. (J. pr. [2] 65, 421 C. 1902 [2] 36).
- 20) 3-Methyldiazoamidobenzol. Sm. 86° (J. pr. [2] 65, 404 C. 1902 [2] 35).
- 21) 4-Amido-2-Methylazobenzol. Sm. 76°. HNO<sub>3</sub> (J. pr. [2] 65, 407 C. 1902 [2] 35).
- 22) 4-Amido-3-Methylazobenzol. Sm. 118—119° (J. pr. [2] 65, 420 C. 1902 [2] 36).



- $C_{13}H_{13}N_3$  23) 4-[ $\alpha$ -Phenylhydrazonäthyl]pyridin. Sm. 150° (B. 34, 4251 C. 1902 [1] 209).
- $C_{13}H_{13}P$  3) 4-Benzylphenylphosphin. Sm. 46°; Sd. 184°<sub>20</sub> (A. 315, 46).
- $C_{13}H_{14}O$  11) 1-[ $\alpha$ -Oxyisopropyl]naphtalin. Sm. 80°; Sd. 159—161° (C. 1901 [2] 623).
- 12)  $\beta$ -Oxy- $\beta$ -[1-Naphtyl]propan (1-Naphtyldimethylcarbinol). Sm. 80° (Bl. [3] 25, 497).
- 13) 2-Keto- $\beta$ -Benzyliden-1-Methyl-R-Pentamethylen. Sm. 123—124° (C. 1902 [1] 1221).
- $C_{13}H_{14}O_2$  9) 8-Methyl-5-Isopropyl-1,4-Benzpyron. Sm. 59—60° (Soc. 79, 921).
- $C_{13}H_{14}O_3$  13) Trimethyläther d. 1,6,7-Trioxynaphtalin. Sm. 127—128° (M. 23, 531 C. 1902 [2] 745).
- 14)  $\beta\delta$ -Diketo- $\gamma$ -Benzoylmethylpentan ( $\alpha\alpha$ -Diacetyl- $\beta$ -Benzoyläthan). Sm. 57—58° (Cu (C. r. 133, 46).
- 15) Äthyläther d. 6-Oxy-2-Äthyl-1,4-Benzpyron. Sm. 65—66° (B. 34, 1695).
- 16) Äthyläther d. 7-Oxy-2-Äthyl-1,4-Benzpyron + H<sub>2</sub>O. Sm. 83—84° (B. 34, 1696).
- 17) Äthyläther d. 7-Oxy-2,3-Dimethyl-1,4-Benzpyron. Sm. 124° (B. 34, 2947).
- 18) Anhydrid d.  $\alpha$ -Phenylpentan- $\delta\epsilon$ -Dicarbonsäure. Sm. 95° (B. 34, 2191).
- 19) Anhydrid d.  $\delta$ -Phenyl- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 111,5°; Sd. 243° (M. 22, 1136 C. 1902 [1] 472).
- 20) Verbindung (aus Dimethyldihydrophthalidtetronsäure). Sm. 139° (A. 322, 390 C. 1902 [2] 737).
- $C_{13}H_{14}O_4$  \*13) 1,2-Lakton d. 1-[ $\alpha$ -Oxyisopropyl]benzol-2,4-Dicarbonsäure-4-Äthylester (Äthylester d. Dimethylphthalidcarbonsäure). Sm. 105 bis 106° (G. 32 [1] 309 C. 1902 [1] 1404).
- \*21)  $\alpha\delta$ -Diketo- $\alpha$ -Phenylhexan- $\zeta$ -Carbonsäure (Phenacyllävlinsäure). Sm. 115—116°. Na, K, Ca + H<sub>2</sub>O, Zn + 2H<sub>2</sub>O, Ag (B. 34, 1263).
- 22) Usnidol. Sm. 176° (J. pr. [2] 65, 545 C. 1902 [2] 380).
- 23)  $\alpha$ -Phenyl- $\beta$ -Penten- $\delta\epsilon$ -Dicarbonsäure (Phenyläthylidenbrenzweinsäure). Sm. 112°. Ca + 2H<sub>2</sub>O, Ba + H<sub>2</sub>O (B. 34, 2190).
- 24)  $\gamma$ -Phenyl- $\beta$ -Penten- $\alpha\beta$ -Dicarbonsäure ( $\gamma$ -Äthyl- $\gamma$ -Phenylitakonsäure). Sm. 175—176° u. Zers. Ca (A. 321, 101 C. 1902 [1] 979).
- 25)  $\gamma$ -Phenyl- $\beta$ -Penten- $\delta\epsilon$ -Dicarbonsäure ( $\gamma$ -Äthyliden- $\gamma$ -Phenylbrenzweinsäure). Sm. 137—138°. Ca + H<sub>2</sub>O, Ba, Ag<sub>2</sub> (A. 321, 94 C. 1902 [1] 979).
- 26)  $\epsilon$ -Phenyl- $\beta$ -Penten- $\alpha\beta$ -Dicarbonsäure (Phenyläthylitakonsäure). Sm. 153°. Ca + H<sub>2</sub>O (B. 34, 2190).
- 27)  $\gamma$ -Äthyl- $\gamma$ -Phenylisoitakonsäure. Sm. 184—184,5° u. Zers. Ca (A. 321, 103 C. 1902 [1] 979).
- 28) Lakton d.  $\delta$ -Keto- $\alpha$ -[4-Methoxyphenyl]- $\alpha$ -Penten- $\beta$ -Carbonsäure ( $\alpha$ -Anisencyllävlinsäure). Sm. 119—119,5° (A. 319, 186 C. 1902 [1] 106).
- 29) Verbindung (aus Hydrochinon u. Dimethylpyron). Sm. 107—109° (B. 35, 1210 C. 1902 [1] 998).
- $C_{13}H_{14}O_6$  22)  $\delta$ -Keto- $\gamma$ -Oxy- $\gamma$ -Phenylpentan- $\alpha\beta$ -Dicarbonsäure. Ba (A. 321, 99 C. 1902 [1] 979).
- 23)  $\beta$ -Phenylbutan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 199—200° u. Zers. Ca +  $\frac{1}{2}$ H<sub>2</sub>O, Ba + 5H<sub>2</sub>O (A. 315, 232).
- 24) Äthylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -[2-Oxy-4-Methoxyphenyl]propan- $\gamma$ -Carbonsäure (Ae. d. 2-Oxy-4-Methoxybenzoylbrenztraubensäure). Sm. 107—108° (B. 35, 865 C. 1902 [1] 813).
- 25) Salicylsäurediäthylcarbonat (C. 1901 [1] 347).
- 26) Monobenzoat d. Cellulose (B. 34, 1514).
- $C_{13}H_{14}O_7$  8) Methyl ester d. 2,6-Diacetoxy-4-Methoxybenzol-1-Carbonsäure. Sm. 92—94° (M. 23, 89 C. 1902 [1] 1098).
- 9) Trimethyl ester d. 5-Oxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 136—138° (B. 35, 2914 C. 1902 [2] 1042).
- $C_{13}H_{14}O_8$  \*6) Diäthylester d. 2,4-Dioxybenzol-1,3,5-Tricarbonsäure + H<sub>2</sub>O. Sm. 150—151°. Na (G. 31 [1] 163).
- $C_{13}H_{14}N_2$  \*1) Di[Phenylamido]methan. Sm. 65—67°. (2HCl, PtCl<sub>4</sub>) (Soc. 81, 283 C. 1902 [1] 527; B. 35, 714 C. 1902 [1] 717).

- $C_{13}H_{14}N_2$  \*5) 4,4'-Diamidodiphenylmethan. Sm. 87° (88°) (*J. pr.* [2] 65, 316 *C.* 1902 [1] 1351; *A.* 324, 136 *C.* 1902 [2] 1253).
- \*25) 4-Phenylamido-2,6-Dimethylpyridin. Sm. 150° (*B.* 35, 3158 *C.* 1902 [2] 1214).
- 33) 2,2'-Diamidodiphenylmethan. Sm. 160° (*J. pr.* [2] 65, 326, 333 *C.* 1902 [1] 1352).
- 34) 1-Methylamido-2-Phenylamidobenzol. Fl. HCl (*B.* 34, 4205 *C.* 1902 [1] 262).
- 35) 1,8-Isopropylidendiamidonaphtalin (*C.* 1901 [2] 448).
- $C_{13}H_{14}N_4$  \*2) 4,6-Diamido-3-Methylazobenzol. Sm. 161° (*Soc.* 81, 94).
- \*4)  $\alpha$ -Hydrazido- $\alpha$ -Phenylimido- $\alpha$ -Phenylamidomethan. norm. Oxalat, saures Oxalat (*B.* 35, 1718 *C.* 1902 [2] 30).
- $C_{13}H_{15}N$  \*3) 2,5-Dimethyl-1-[4-Methylphenyl]pyrrol. Sm. 45—46° (*B.* 35, 192 *C.* 1902 [1] 415).
- 15) 2-Methyläthylamidonaphtalin. Fl. HCl, d-Camphersulfonat (*Bl.* [3] 27, 970 *C.* 1902 [2] 1210; *Bl.* [3] 27, 981 *C.* 1902 [2] 1211).
- 16) 2,5-Dimethyl-1-[3-Methylphenyl]pyrrol. Sm. 53°; Sd. 220—225°<sub>860</sub> (*B.* 35, 688 *C.* 1902 [1] 716).
- $C_{13}H_{15}N_3$  5) 4-Phenylhydrazon-2,6-Dimethyl-1,4-Dihydropyridin. Sm. 125° (*J. pr.* [2] 64, 496 *C.* 1902 [1] 124).
- $C_{13}H_{16}O$  5)  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Heptin. Sd. 164—165°<sub>14</sub> (*C. r.* 134, 356 *C.* 1902 [1] 629).
- $C_{13}H_{16}O_2$  \*5) 2,4-Diacetyl-1,3,5-Trimethylbenzol. 2 + Al<sub>2</sub>Br<sub>3</sub> (*Am.* 27, 251 *C.* 1902 [1] 1291).
- 16)  $\alpha$ -Phenyl- $\alpha$ -Hexen- $\beta$ -Carbonsäure ( $\alpha$ -Butylzimmtsäure). Sm. 83—84° (*B.* 34, 929). — \*II, 860.
- 17)  $\alpha$ -Phenyl- $\delta$ -Methyl- $\alpha$ -Penten- $\beta$ -Carbonsäure ( $\alpha$ -Isobutylzimmtsäure). Sm. 73° (*B.* 34, 930). — \*II, 860.
- 18) Aldehyd d.  $\gamma$ -Oxy- $\alpha$ -Phenyl- $\delta$ -Methyl- $\alpha$ -Penten- $\delta$ -Carbonsäure. Sd. 190—200°<sub>30</sub> (*M.* 22, 1121 *C.* 1902 [1] 471).
- 19) Laktone d. Säure C<sub>13</sub>H<sub>16</sub>O<sub>3</sub>. Krystalle. Sd. 343—345° (*M.* 22, 1129 *C.* 1902 [1] 472).
- 20) Propylester d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sd. 162—165°<sub>25</sub> (*Soc.* 79, 1312 *C.* 1902 [1] 195).
- 21) Isopropylester d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sd. 155—160°<sub>30</sub> (*Soc.* 79, 1312 *C.* 1902 [1] 195).
- $C_{13}H_{16}O_4$  \*13) Dimethylester d.  $\beta$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 86—87° (*A.* 320, 84).
- 25)  $s$ -Oxy- $\gamma$ -Keto- $\beta$ -Methylpentanphenyläther- $\gamma$ -Carbonsäure (*Soc.* 89, 173). — \*II, 364.
- 26)  $\alpha$ -Phenylpentan- $\delta$ - $s$ -Dicarbonsäure (*B.* 34, 2191).
- 27)  $\delta$ -Phenyl- $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 169° (140°) (*B.* 24, 1060; *M.* 22, 1135 *C.* 1902 [1] 472).
- 28) Methylester d. Oxyessig-2-Methoxyl-4-Allylphenyläthersäure. Sd. 161—164°<sub>19</sub> (*M.* 22, 129).
- 29) 4-Aethylcarbonat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 26—27°; Sd. 295—298° (D.R.P. 60716). — \*II, 588.
- 30) 4-Aethylcarbonat d. 3,4-Dioxy-1-Propenylbenzol-3-Methyläther. Sd. 338—342° (D.R.P. 61848). — \*II, 591.
- $C_{13}H_{16}O_5$  14) 2,6-Diacetat d. 2,4,6-Trioxy-1-Methylbenzol-4-Aethyläther. Sm. 91° (*M.* 23, 566 *C.* 1902 [2] 738).
- $C_{13}H_{16}O_6$  \*5) 1-Propylester d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure. (*M.* 23, 329 *C.* 1902 [2] 201).
- \*6) 2-Propylester d. 3,4-Dioxybenzoldimethyläther-1,2-Dicarbonsäure (*M.* 23, 329 *C.* 1902 [2] 201).
- $C_{13}H_{16}O_7$  \*4) Diäthylester d. 6-Aethoxyl-1,2-Pyron-3,5-Dicarbonsäure. Sm. 94° (*B.* 35, 2884 *C.* 1902 [2] 1035).
- \*6) Salinigrin (*C.* 1902 [2] 803).
- \*6) Monoäthylester d. Piscidinsäure. Sm. 207—208° (*Am.* 25, 394).
- $C_{13}H_{17}N$  \*5) 1,3,3-Trimethyl-2-Aethyliden-2,3-Dihydroindol. HJ (*C.* 1902 [2] 1322).
- 20) Base (aus d. Verbindung C<sub>13</sub>H<sub>13</sub>NCl<sub>2</sub>). HBr (*C.* 1901 [1] 1323).
- $C_{13}H_{18}O$  14)  $s$ -Keto- $\gamma$ -Phenyl- $\beta$ -Methylhexan (Isoamylbenzylketon). Sd. 267° (*C. r.* 133, 1218 *C.* 1902 [1] 299).

- $C_{15}H_{15}O$  15) Propyl-2,4,6-Trimethylphenylketon. *Sd.* 140°<sub>14</sub> (*B.* 35, 2258 *C.* 1902 [2] 274).
- $C_{15}H_{15}O_2$  28)  $\gamma$ -Dioxy- $\alpha$ -Phenyl- $\delta\delta$ -Dimethyl- $\alpha$ -Penten. *Fl.* (*M.* 22, 1122 *C.* 1902 [1] 471).
- 29) Isobutyläther d. Aethyl-4-Oxyphenylketon. *Sm.* 52°; *Sd.* 172 bis 174°<sub>14</sub> (*B.* 35, 2265 *C.* 1902 [2] 276).
- 30)  $\alpha$ -Oxy- $\alpha$ -[2-Furanyl]- $\beta$ -Nonin. *Sd.* 163°<sub>13</sub> (*C. r.* 134, 356 *C.* 1902 [1] 629).
- 31) Acetat d.  $\delta$ -Oxy- $\delta$ -Phenyl- $\beta$ -Methylbutan. *Sd.* 125—126° (*C.* 1901 [2] 623).
- $C_{15}H_{15}O_3$  \*1) Diäthyläther d. Aethyl-2,4-Dioxyphenylketon. *Sm.* 72° (*B.* 34, 2947).
- 35) 4-Methyläther-3-Aethoxymethyläther d. 3,4-Dioxy-1-Propenylbenzol. *Sd.* 160—162°<sub>14</sub> (*C.* 1901 [1] 806).
- 36) Säure (aus Zimmtaldehyd u. Isobutyraldehyd). *Ag* (*M.* 22, 1130 *C.* 1902 [1] 472).
- 37) Aldehyd d.  $\alpha$ -Oxy- $\alpha$ -[4-Aethoxyphenyl]- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. *Sm.* 66—67° (*M.* 22, 500).
- 38) Acetat d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. *Sd.* 161°<sub>17</sub> (*B.* 35, 2264 *C.* 1902 [2] 276).
- 39) Aethylcarbonat d. 2-Oxy-4-Isopropyl-1-Methylbenzol. *Sd.* 266 bis 268° (*D. R. P.* 60716). — \*II, 459.
- $C_{15}H_{15}O_4$  15) Methylcampheroxalsäure. *Sm.* 95—96° (*C.* 1901 [2] 545).
- $C_{15}H_{15}O_5$  \*11) Diäthylester d. Ketodimethylidicyklopentandicarbonsäure. *Sd.* 210°<sub>30</sub> (*Soc.* 79, 777).
- 13)  $\alpha$ -Acetoxycamphercarbonsäure. *Sm.* 85—86° (*Soc.* 79, 385).
- $C_{15}H_{15}O_6$  \*8) Diäthylester d. 3,4-Diketo-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure. *Sm.* 98° (*B.* 34, 2472).
- 10) 3-Methylphenylglykosid. *Sm.* 167,5—168,5° (*Soc.* 79, 705).
- $C_{15}H_{15}O_7$  \*1) Salicin (*C.* 1902 [2] 803).
- $C_{15}H_{15}O_8$  \*2) Tetraacetat d. Arabinose. *Sm.* 80° (*C. r.* 134, 663 *C.* 1902 [1] 911).
- $C_{15}H_{15}N$  \*2) 2-[ $\beta$ -Phenyläthyl]hexahydropyridin. *Sd.* 277—278°. *HBr* (*B.* 34, 2233).
- 11)  $\alpha$ -2-Methylcamphenpyrrol. *Sm.* 65°; *Sd.* 160—162°<sub>50</sub>. *Pikrat* (*B.* 34, 3058).
- 12)  $\gamma$ -2-Methylcamphenpyrrol. *Sm.* 43—44° (*B.* 34, 3061).
- $C_{15}H_{20}O$  \*16)  $\alpha$ -Jonon (*D. R. P.* 129027 *C.* 1902 [1] 1137; *D. R. P.* 132222 *C.* 1902 [2] 169).
- \*17)  $\beta$ -Jonon (*D. R. P.* 126959 *C.* 1902 [1] 77; *D. R. P.* 132222 *C.* 1902 [2] 169; *D. R. P.* 133145 *C.* 1902 [2] 490; *D. R. P.* 133563 *C.* 1902 [2] 490).
- \*18) Pseudojonon (*D. R. P.* 127661 *C.* 1902 [1] 337; *D. R. P.* 130457 *C.* 1902 [1] 1137).
- 25)  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]butan. *Sd.* 147,5°<sub>12</sub> (*B.* 35, 2259 *C.* 1902 [2] 275).
- 26) Aethyläther d. 3-Oxy-P-Pseudobutyl-1-Methylbenzol. *Sd.* 235 bis 240° (*D. R. P.* 62362). — \*II, 467.
- 27) Isoiron. *Sd.* 140—150°<sub>30</sub> (*C.* 1901 [1] 1219).
- $C_{15}H_{20}O_2$  \*10) Abieninsäure (*C.* 1902 [1] 121).
- 12) 4-Isobutyläther d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. *Sd.* 164—165°<sub>14</sub> (*B.* 35, 2266 *C.* 1902 [2] 276).
- 13) Acetonylisocampher. *Sd.* 290—291° (*B.* 34, 3059).
- 14) Santalensäure. *Sm.* 76°; *Sd.* 189°<sub>25</sub>. *Na, K, Ca, Ba, Sr, Cu, Pb, Ag* (*Soc.* 79, 135). — \*II, 711.
- 15) Aethylester d. 3-Methyl-1-Aethyl-1,2-Dihydrobenzol-5-Methylcarbonsäure. *Sd.* 145—147° (*i. V.*) (*A.* 323, 146 *C.* 1902 [2] 842).
- $C_{15}H_{20}O_3$  \*6) Methyläster d. Methylcamphocarbonsäure. *Sm.* 87° (*Bl.* [3] 27, 681 *C.* 1902 [2] 431; *B.* 35, 3624 *C.* 1902 [2] 1467).
- \*7) Aethylester d. Camphocarbonsäure (*B.* 35, 3511 *C.* 1902 [2] 1320).
- 15) 4-Aethyläther d.  $\alpha\gamma$ -Dioxy- $\alpha$ -[4-Oxyphenyl]- $\beta\beta$ -Dimethylpropan. *Sm.* 75°; *Sd.* 220—222°<sub>24</sub> (*M.* 22, 502).
- $C_{15}H_{20}O_5$  3) Diäthylester d. 3-Keto-1,1-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. *Sd.* 167—169°<sub>14</sub> (*C.* 1901 [2] 534).
- $C_{15}H_{20}O_6$  \*2) Diäthylester d.  $\beta\zeta$ -Diketoheptan- $\gamma\delta$ -Dicarbonsäure. *Sd.* 200 bis 205°<sub>55—45</sub> (*A.* 323, 97 *C.* 1902 [2] 784).

- $C_{11}H_{20}O_6$  7) 2-Oxy-4-Keto-1,1-Dimethyl-3-Aethyl-R-Pentamethylen-2-Aethyl-2,3-Dicarbonsäure. Sm. 175°.  $Ag_2$  (Soc. 79, 770).
- $C_{13}H_{21}N$  8) Diäthylester d. 5-Keto-1-Oxy-1-Methylhexahydrobenzol-2,4-Dicarbonsäure. Fl. (A. 322, 98 C. 1902 [2] 784).
- $C_{13}H_{22}O_2$  9) Verbindung (aus Methylenbisacetessigsäurediäthylester). Sm. 79° (A. 323, 98 C. 1902 [2] 784).
- $C_{13}H_{22}O_2$  7) Dipropylbenzylamin. Sd. 235—243°. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (B. 35, 1281 C. 1902 [1] 1093).
- $C_{13}H_{22}O_2$  8) Base (aus  $\alpha$ -Methylcamphenpyrrol). Sd. 246—248° (B. 34, 3061).
- $C_{13}H_{22}O_2$  \*2) Propionat d. 1-Borneol. Sd. 235° (C. r. 134, 609 C. 1902 [1] 872).
- $C_{13}H_{22}O_2$  \*7) Aethylester d.  $\alpha$ -[2-Methyl-1, 2, 3, 4-Tetrahydro-5-Phenyl]isobuttersäure. Sd. 110—112°<sub>11</sub> (B. 35, 2143 C. 1902 [2] 279).
- $C_{13}H_{22}O_3$  8) Isoamylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 148—149°<sub>20</sub> (C. 1901 [1] 1149; D. R. P. 133631 C. 1902 [2] 553).
- $C_{13}H_{22}O_3$  6) Aethylester d. 3-Keto-1-Methyl-4- oder 2-Isopropylhexahydrobenzol-2- oder 4-Carbonsäure. Sd. 165—168°<sub>20</sub> (B. 34, 3796 C. 1902 [1] 26).
- $C_{13}H_{22}O_4$  7) Menthylester d. Brenztraubensäure. Sd. 136—140°<sub>22</sub> (Soc. 79, 1309 C. 1902 [1] 195).
- $C_{13}H_{22}O_4$  12) Säure (aus d. Verb.  $C_{33}H_{58}O_5$ ) (Ar. 239, 4).
- $C_{13}H_{22}O_4$  13) Diäthylester d. cis-cis-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. Sd. 138°<sub>20</sub> (B. 34, 2571, 2579).
- $C_{13}H_{22}O_5$  14) Diäthylester d. cis-trans-1,3-Dimethyl-R-Pentamethylen-2,2-Dicarbonsäure. Sd. 133°<sub>20</sub> (B. 34, 2577).
- $C_{13}H_{22}O_5$  12) Diäthylester d. 2-Oxy-1,1-Dimethyl-R-Trimethylenäthyläther-2,3-Dicarbonsäure. Sd. 160°<sub>35</sub> (Soc. 79, 760).
- $C_{13}H_{22}O_6$  \*7) Triäthylester d. Butan- $\alpha\gamma\gamma$ -Tricarbonsäure. Sd. 165°<sub>20</sub> (Soc. 79, 128).
- $C_{13}H_{22}O_6$  14) Diäthylester d. 1- $\alpha$ -Valeroxyläthan- $\alpha\beta$ -Dicarbonsäure. Sd. 176 bis 177°<sub>19</sub> (Ph. Ch. 36, 142).
- $C_{13}H_{22}O_6$  15) Triacetat d.  $\alpha\gamma$ -Dioxy- $\beta$ -Oxymethyl- $\beta$ -Methylpentan. Sd. 136°<sub>14</sub> (M. 22, 457).
- $C_{13}H_{22}O_8$  C 51,0 — H 7,2 — O 41,8 — M. G. 306.
- $C_{13}H_{24}O_3$  1) Verbindung (aus Buttersäure). Sm. noch nicht bei 220°. Cu<sub>3</sub>, Ag<sub>3</sub> (C. 1901 [2] 1151).
- $C_{13}H_{24}O_3$  \*5) Aethylester d.  $\alpha$ -[1-Oxy-3-Methylhexahydrophenyl]isobuttersäure. Sd. 131—132°<sub>12</sub> (B. 35, 2143 C. 1902 [2] 279).
- $C_{13}H_{24}O_4$  6) Amylester d.  $\delta$ -Ketoheptan- $\gamma$ -Carbonsäure (A. d. Butyrylbuttersäure). Sd. 125—127° (R. 20, 46 C. 1902 [1] 405).
- $C_{13}H_{24}O_4$  \*1) Undekan- $\alpha\lambda$ -Dicarbonsäure. Sm. 112—113° (Soc. 79, 1196).
- $C_{13}H_{24}O_4$  \*17) Undekan- $\beta$ -Dicarbonsäure. Sm. 81—82°. Ba, Ag<sub>2</sub> (B. 34, 899; Soc. 79, 1196).
- $C_{13}H_{24}O_4$  20) Diäthylester d. Heptan- $\gamma\epsilon$ -Dicarbonsäure. Sd. 283—284° (C. 1902 [2] 107).
- $C_{13}H_{24}O_{11}$  C 43,8 — H 6,7 — O 49,4 — M. G. 356.
- $C_{13}H_{24}O_{11}$  1) Methyllaktosid. Sm. 170—171° u. Zers. (B. 35, 1952 C. 1902 [2] 110; M. 23, 869 C. 1902 [2] 1416).
- $C_{13}H_{24}O_{11}$  2)  $\beta$ -Methylmaltosid. Sm. 90° (B. 34, 2896; B. 34, 4345 C. 1902 [1] 303).
- $C_{13}H_{24}S_2$  1) Diäthyläther d.  $\delta\delta$ -Dimerkapto- $\beta\zeta$ -Dimethyl- $\beta\epsilon$ -Heptadien. Fl. (B. 34, 1399).
- $C_{13}H_{25}N$  4) 6-Dimethylamidomethyl-4-Isopropyl-1-Methyl-1, 2, 3, 4-Tetrahydrobenzol. Sd. 124—128°<sub>13</sub> (C. 1901 [1] 1026).
- $C_{13}H_{26}Cl$  1) Chlortridekanaphten. Sd. 140—145°<sub>17</sub> (Am. 25, 295).
- $C_{13}H_{26}O$  5) Propyläther d. 1-Menthol (C. 1902 [2] 1238).
- $C_{13}H_{26}O$  8) Ficocerylsäure. Sm. 57° (R. 20, 71).
- $C_{13}H_{26}O_2$  9) Acetat d.  $\beta$ -Oxyundekan. Sd. 147—149°<sub>43</sub> (B. 35, 2144 C. 1902 [2] 260; B. 35, 3591 C. 1902 [2] 1357).
- $C_{13}H_{26}O_3$  2) Amylester d.  $\beta$ -Oxypropionamyläthersäure. Sd. 259—260°<sub>700</sub> (C. 1901 [1] 613).
- $C_{13}H_{26}O_3$  3) Di[Methylbutylcarbinolester] d. Kohlensäure. Sd. 239—240° (C. 1901 [1] 1302).
- $C_{13}H_{26}O_3$  4) Methyl- $\alpha$ -Methylpropylcarbinolester d. Kohlensäure (Carbonat d.  $\beta$ -Oxy- $\gamma$ -Methylpentan). Sd. 228—230° (C. 1901 [1] 1303).

- $C_{13}H_{26}O_3$  5) Di[Aethylpropylcarbinolester] d. Kohlensäure. Sd. 233—234° (C. 1901 [1] 1302).  
 6) Di[Aethylisopropylcarbinolester] d. Kohlensäure. Sd. 227—228° (C. 1901 [1] 1302).  
 $C_{13}H_{27}N$  3) 6-Aethylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd. 135—140° (C. 1901 [2] 152).  
 4) 2-Dimethylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd. 118—120°<sub>13-16</sub> (C. 1901 [2] 152).  
 5) 1-Isoamyl-2-Propylhexahydropyridin. Sd. 238—240°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, Pikrat (B. 34, 2422).  
 $C_{13}H_{27}Cl$  2) Chlortridekan. Sd. 135—140°<sub>12</sub> (Am. 28, 171 C. 1902 [2] 1081).  
 $C_{13}H_{28}O$  2)  $\gamma$ -Oxy- $\gamma$ -Aethylundekan (Diäthylotylcarbinol). Sd. 250° (C. 1901 [1] 725).  
 3) Pisangcerylalkohol. Sm. 78° (R. 20, 67).

## — 13 III —

- $C_{13}H_5O_6N_5$  C 41,6 — H 1,3 — O 38,4 — N 18,7 — M. G. 375.  
 1) P-Tetranitro-5-Keto-5,10-Dihydroakridin. Sm. oberh. 350° (J. pr. [2] 64, 488 C. 1902 [1] 126).  
 $C_{13}H_5OCl_4$  1) 2,5,2',5'-Tetrachlordiphenylketon. Sm. 128° (Am. 26, 498 C. 1902 [1] 463).  
 $C_{13}H_5O_2Br_6$  1) Methylenäther d. 2,4,6-Tribrom-1-Oxybenzol. Sm. 204° (B. 35, 442 C. 1902 [1] 642).  
 $C_{13}H_5O_5N_3$  \*1) 2,7-Dinitro-9-Ketofluoren. Sm. 289° (A. 321, 346 C. 1902 [2] 61).  
 $C_{13}H_5O_2J_3$  1) 2,4,6-Trijodphenylester d. Benzolcarbonsäure. Sm. 137° (C. r. 133, 162).  
 $C_{13}H_7O_3N$  \*1) 2-Nitro-9-Ketofluoren. Sm. 222—223° (B. 34, 1764).  
 2) Anhydrid d. 3-Phenylpyridin-2,3'-Dicarbonsäure. Sm. 183° (B. 35, 297 C. 1902 [1] 591).  
 $C_{13}H_7O_3Cl_3$  1) 2,4,6-Trichlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 130° (D.R.P. 70519). — \*II, 887.  
 $C_{13}H_7O_3Br_3$  \*4) 2,4,6-Tribromphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 133° (D.R.P. 70519). — \*II, 887.  
 $C_{13}H_7O_3J_3$  1) 2,4,6-Trijodphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 170° (D.R.P. 70519). — \*II, 888.  
 $C_{13}H_7O_5N_3$  3) 1,3-Dinitro-5-Keto-5,10-Dihydroakridin. Sm. noch nicht bei 300° (M. 22, 391).  
 $C_{13}H_7O_6Br_3$  3) Diacetat d. 3,6- oder 3,8-Dibrom-5,7-Dioxy-1,2-Benzpyron. Sm. 244° (Soc. 81, 510 C. 1902 [1] 119, 1333).  
 $C_{13}H_8OCl_2$  \*1) 4,4'-Dichlordiphenylketon. Sm. 144,5° (147,75); Sd. 353°<sub>757</sub> (Am. 26, 496 C. 1902 [1] 463; R. 21, 24 C. 1902 [1] 1013).  
 $C_{13}H_8OBr_2$  \*3) 4,4'-Dibromdiphenylketon. Sd. 171—172° (Am. 26, 497 C. 1902 [1] 463).  
 $C_{13}H_8O_2Cl_2$  2) 1,5-Dichlor-3,6-Dioxypentanthren. Sm. 180° u. Zers. (B. 34, 1557).  
 $C_{13}H_8O_2Br_2$  6) 1,5-Dibrom-3,6-Dioxypentanthren. Sm. 174° u. Zers. (B. 34, 1547).  
 $C_{13}H_8O_2J_2$  2) 2,4-Dijodphenylester d. Benzolcarbonsäure. Sm. 96—97° (C. r. 133, 161).  
 $C_{13}H_8O_3N_4$  2) 4-Keto-3-[3-Nitrophenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 235° (J. pr. [2] 63, 289).  
 3) 4-Keto-3-[4-Nitrophenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 252 bis 254° (J. pr. [2] 63, 290).  
 $C_{13}H_8O_3Cl_2$  3) 2,5-Dichlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 104° (D.R.P. 70519). — \*II, 887.  
 4) 2,6-Dichlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 110° (D.R.P. 70519). — \*II, 887.  
 5) Di[2-Chlorphenylester] d. Kohlensäure. Sm. 55° (D.R.P. 81375). — \*II, 369.  
 6) Di[3-Chlorphenylester] d. Kohlensäure. Sm. 121° (D.R.P. 81375). — \*II, 369.  
 $C_{13}H_8O_3Br_2$  3) 2,4-Dibromphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 112° (D.R.P. 70519). — \*II, 887.  
 4) 2,6-Dibromphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 118° (D.R.P. 70519). — \*II, 887.



- $C_{13}H_8O_3J_2$  1) Phenylester d. 3,5-Dijod-2-Oxybenzol-1-Carbonsäure. Sm. 135° (D.R.P. 87670). — \*II, 895.
- $C_{13}H_8O_4N_4$  2) *p*-Dijodphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 171° (D.R.P. 70519). — \*II, 888.
- $C_{13}H_8O_5N_4$  3) Nitril d. 4,6-Dinitrodiphenylamin-2-Carbonsäure. Sm. 183° (R. 20, 419 C. 1902 [1] 419).
- $C_{13}H_8O_5N_2$  \*1) 2,2'-Dinitrodiphenylketon. Sm. 188—189° (*J. pr.* [2] 65, 330 C. 1902 [1] 1352).
- \*4) 3,3'-Dinitrodiphenylketon. Sm. 149° (*Soc.* 79, 1212).
- \*6) 4,4'-Dinitrodiphenylketon. Sm. 189—190° (*Soc.* 79, 1212).
- $C_{13}H_8O_6N_6$  3) *p*-Tetranitrodiphenylharnstoff. Sm. 189° (oberh. 200°) (*B.* 10, 690, 1296; 11, 1541; *J. pr.* [2] 34, 426). — II, 379.
- $C_{13}H_8O_{11}N_6$  C 36,8 — H 1,9 — O 41,5 — N 19,8 — M. G. 424.
- 1) *p*-Pentanitro-3'-Oxy-4-Methyldiphenylamin. Sm. 230° (*J. pr.* [2] 65, 81 C. 1902 [1] 580).
- $C_{13}H_8NCl$  \*1) 5-Chlorakridin. Sm. 119° (122°). (2HCl, PtCl<sub>4</sub>) (*C.* 1901 [2] 448; *J. pr.* [2] 64, 471 C. 1902 [1] 124).
- $C_{13}H_8NBr$  2) 5-Bromakridin. Sm. 116°. (2HCl, PtCl<sub>4</sub>), Pikrat (*C.* 1901 [2] 448; *J. pr.* [2] 64, 472 C. 1902 [1] 124).
- $C_{13}H_8NJ$  1) 5-Jodakridin. Sm. 169° (171°). (2HCl, PtCl<sub>4</sub>), Pikrat (*J. pr.* [2] 64, 474 C. 1902 [1] 125; D.R.P. 126795 C. 1902 [1] 80).
- $C_{13}H_8ON$  \*9) 5-Keto-5,10-Dihydroakridin (Akridon) (*J. pr.* [2] 64, 487 C. 1902 [1] 125).
- 18) 1-Amido-9-Ketofluoren. Sm. 110°. HCl, (2HCl, PtCl<sub>4</sub>) (*M.* 23, 893 C. 1902 [2] 1472).
- 19) 2-Amido-9-Ketofluoren. Sm. 163°. HCl (*B.* 34, 1764).
- $C_{13}H_8ON_3$  \*2) 4-Keto-3-Phenyl-3,4-Dihydro-1,2,3-Benztriazin. Sm. 151° (*J. pr.* [2] 63, 267; [2] 64, 75).
- 3) 8-Keto-5-Phenyl-7,8-Dihydro-1,6,7-Benztriazin. Sm. 236° (*M.* 22, 844).
- $C_{13}H_9OCl$  5) Xanthoxoniumchlorid. + FeCl<sub>3</sub> (*B.* 34, 3302).
- $C_{13}H_9OBr$  \*1) 2-Bromdiphenylketon. Sm. 35° (*B.* 35, 2869 C. 1902 [2] 1040).
- 3) 4-Bromdiphenylketon. Sm. 172—173° (*B.* 35, 2869 C. 1902 [2] 1040).
- $C_{13}H_9OBr_3$  2) Xanthoxoniumperbromid (*B.* 34, 3302).
- $C_{13}H_9OJ_3$  1) Benzyläther d. 2,4,6-Trijod-1-Oxybenzol. Sm. 123° (*C. r.* 133, 161).
- $C_{13}H_9O_2N$  \*1) 2-Nitrofluoren. Sm. 156° (*B.* 34, 1759).
- 16) Lakton d. 3-[ $\alpha$ -Oxybenzyl]pyridin-2-Carbonsäure. Sm. 122° (*M.* 22, 847).
- $C_{13}H_9O_2Cl$  5) 5-Chlor-3,6-Dioxypentanthren. Sm. 185° (*B.* 34, 1557).
- $C_{13}H_9O_2Br$  6) 5-Brom-3,6-Dioxypentanthren. Sm. 192° u. Zers. (*B.* 34, 1548).
- $C_{13}H_9O_2N$  \*1) 2-Nitrodiphenylketon (*J. pr.* [2] 65, 308 C. 1902 [1] 1350).
- $C_{13}H_9O_2N_3$  4) 7-Amido-3-Oxy-5,10-Naphtdiazin-2-Carbonsäure (*C.* 1901 [2] 1107).
- $C_{13}H_9O_3Cl$  3) 5-Chlor-1,3,6-Trioxypentanthren. Sm. 140° u. Zers. (*B.* 34, 1554).
- 4) 2-Chlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 55° (D.R.P. 70519). — \*II, 887.
- 5) 3-Chlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 68° (D.R.P. 70519). — \*II, 887.
- 6) 4-Chlorphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 72° (D.R.P. 70519). — \*II, 887.
- $C_{13}H_9O_3Br$  \*3) 5-Brom-1,3,6-Trioxypentanthren (*B.* 34, 1543).
- 4) 2-Bromphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 88° (D.R.P. 70519). — \*II, 887.
- 5) 4-Bromphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 72° (D.R.P. 70519). — \*II, 887.
- $C_{13}H_9O_3J$  1) 2-Jodphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 90° (D.R.P. 70519). — \*II, 887.
- 2) 4-Jodphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 97° (D.R.P. 70519). — \*II, 887.
- $C_{13}H_9O_4N$  \*8) 3-Phenylpyridin-2,3'-Dicarbonsäure. Sm. 196—197° (*B.* 35, 297 C. 1902 [1] 591).
- $C_{13}H_9O_4N_3$  \*1) 3-Nitro-1-[3-Nitrobenzyliden]amidobenzol. (D.R.P. 135335 C. 1902 [2] 1167).
- 4) 4-Nitro-1-[3-Nitrobenzyliden]amidobenzol. (D.R.P. 135335 C. 1902 [2] 1167).

- $C_{13}H_9O_4N_3$  5) 4-Nitro-1-[4-Nitrobenzyliden]amidobenzol. (D.R.P. 135335 *C.* 1902 [2] 1167).
- 6) 2,4-Dinitrobenzylidenamidobenzol. Sm. 133° (131–132°) (*B.* 35, 1233, 1237 *C.* 1902 [1] 1000; *B.* 35, 1267 *C.* 1902 [1] 1102 *B.* 35, 2716 *C.* 1902 [2] 638; *M.* 23, 557 *C.* 1902 [2] 742).
- $C_{13}H_9O_4N_5$  2) 6-[2,4-Dinitrophenyl]amidoindazol. Sm. 261 (*C.* 1901 [1] 551).
- 3) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[4,6-Dinitrophenyl]hydrazin- $\beta^2$ -Carbonsäure. Zers. bei 270–280° (*R.* 20, 414 *C.* 1902 [1] 418).
- $C_{13}H_9O_5N$  9) 4-Nitrophenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 148° (D.R.P. 43713). — \*II, 888.
- $C_{13}H_9O_5N_3$  \*6) 2-Nitrophenylamid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 216° (*B.* 34, 2959).
- 10) 5-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 197° (*Soc.* 79, 50).
- 11) 4'-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 253–254° (*Soc.* 79, 53).
- 12) 2-Nitrophenylamid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 138° (*B.* 34, 2958).
- $C_{13}H_9O_6N_3$  10) 4,6-Dinitrodiphenylamin-2-Carbonsäure (3,5-Dinitro-2-Phenylamido-benzol-1-Carbonsäure). Sm. 214° (215°). K, Ca, Anilinsalz (*M.* 22, 389; *G.* 32 [1] 575 *C.* 1902 [2] 583).
- $C_{13}H_9O_6N_5$  4)  $\alpha$ -4-Nitrophenyl-2,4-Dinitrobenzylidenhydrazin. Sm. 283–285° u. Zers. (*B.* 35, 1232 *C.* 1902 [1] 1000).
- $C_{13}H_9O_7N_3$  \*6) 5-[2,4-Dinitrophenyl]amido-2-Oxybenzol-1-Carbonsäure. (D.R.P. 129885 *C.* 1902 [1] 840).
- \*7) 4,6-Dinitro-4'-Oxydiphenylamin-2-Carbonsäure. Sm. 103° (*M.* 22, 392).
- $C_{13}H_9NCl_2$  5) 4-Chlor-1-[2-Chlorbenzyliden]amidobenzol. Sm. 68°. HCl (*B.* 34, 832).
- 6) 3-Chlor-1-[4-Chlorbenzyliden]amidobenzol. Sm. 67° (*J. pr.* [2] 65, 265 *C.* 1902 [1] 1214).
- 7) 4-Chlor-1-[4-Chlorbenzyliden]amidobenzol. Sm. 111° (112°) (*B.* 34, 832; *J. pr.* [2] 65, 265 *C.* 1902 [1] 1213).
- $C_{13}H_9NS$  \*3) 1-Phenylbenzthiazol. Sm. 114° (*B.* 35, 1946 *C.* 1902 [2] 112).
- 4) 5-Thiocarbonyl-5,10-Dihydroakridin +  $H_2O$ . Sm. 275° (271°). HCl (*J. pr.* [2] 64, 196; *C.* 1901 [1] 1254; *J. pr.* [2] 64, 487 *C.* 1902 [1] 125).
- $C_{13}H_9N_2Cl$  3) 2-Diazofluorenechlorid +  $2H_2O$ . Zers. bei 118–119° (*B.* 34, 1761).
- $C_{13}H_{10}ON_2$  17) Carbonyl-2,2'-Diamidobiphenyl. Sm. 310°; subl. bei 130° (*B.* 34, 3330).
- 18) 1-Acetyl- $\beta$ -Naphtimidazol. Sm. 153° (*B.* 34, 933).
- 19) Aldehyd d. Azobenzol-4-Carbonsäure. Sm. 120,5° (116°) (*C. r.* 134, 1359 *C.* 1902 [2] 195; *Am.* 28, 47 *C.* 1902 [2] 701).
- $C_{13}H_{10}ON_4$  8) Diphenylcarbodiäzin. Zers. unterh. 100° (*Bl.* [3] 25, 376).
- $C_{13}H_{10}OJ_2$  1) Benzyläther d. 2,6-Dijod-1-Oxybenzol. Sm. 74,5° (*C. r.* 134, 358 *C.* 1902 [1] 638).
- $C_{13}H_{10}O_2N_2$  \*4) 3-Nitrobenzylidenamidobenzol.  $H_2SO_3$  (*A.* 316, 141).
- \*7) 4-Nitro-1-Benzylidenamidobenzol. Sm. 118° (*B.* 34, 833; *B.* 35, 990 *C.* 1902 [1] 870).
- \*11)  $\alpha$ -[3-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthen. Sm. 127°. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ) (*B.* 34, 465; *Ar.* 240, 252 *C.* 1902 [2] 130).
- 26) anti-4-Benzoyldiazobenzol (*B.* 35, 2971 *C.* 1902 [2] 1104).
- 27) 1-Nitro-2-Amidofluoren. Sm. 206° (*B.* 35, 3286 *C.* 1902 [2] 1262).
- 28) 7-Nitro-2-Amidofluoren. Sm. 232° (*B.* 35, 3288 *C.* 1902 [2] 1263).
- 29)  $\alpha$ -[2-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthen. Sm. 95–96°. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ) (*B.* 34, 465; *Ar.* 240, 255 *C.* 1902 [2] 130).
- 30)  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthen. Sm. 125–126°. HCl, (2HCl,  $PtCl_4$ ), (2HCl,  $HgCl_2$  +  $H_2O$ ), (HCl,  $AuCl_3$ ) (*B.* 34, 466; *Ar.* 240, 249 *C.* 1902 [2] 130).
- 31) Phenylamid d. 2-Nitrobenzol-1-Carbonsäure (*B.* 35, 2715 *C.* 1902 [2] 638).
- $C_{13}H_{10}O_2N_6$  3) 2-[4-Nitrophenylhydrazon]methyl-1-Diazobenzolimid. Sm. 191–192° (*B.* 34, 1335).
- $C_{13}H_{10}O_2S$  4) Phenylester d. 2-Oxybenzol-1-Thiolcarbonsäure. Sm. 52° (D.R.P. 46756). — \*II, 888.
- $C_{13}H_{10}O_3N_2$  21) 3-[3-Nitrobenzyliden]amido-1-Oxybenzol. (D.R.P. 135335 *C.* 1902 [2] 1166).

- $C_{13}H_{10}O_3N_2$  22) 3-[4-Nitrobenzyliden]amido-1-Oxybenzol. (D.R.P. 135335 C. 1902 [2] 1166).  
 23) 4-[4-Nitrobenzyliden]amido-1-Oxybenzol. (D.R.P. 135335 C. 1902 [2] 1166).  
 24) 3-Nitro-1-[3-Oxybenzyliden]amidobenzol. (D.R.P. 135335 C. 1902 [2] 1166).  
 25) 4-Nitro-1-[4-Oxybenzyliden]amidobenzol. (D.R.P. 135335 C. 1902 [2] 1166).  
 26)  $\beta$ -Keto- $\beta$ -[4-Nitrophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 160°. HCl, (HCl,  $HgCl_2$ ), (2HCl,  $PtCl_4$ ), Pikrat (B. 35, 1165 C. 1902 [1] 1015).  
 27) 2,4,6-Triketo-5-Cinnamylidenhexahydro-1,3-Diazin (Cinnamyliden-barbitursäure). Sm. 226—228° u. Zers. (B. 34, 1343).  
 28) 4-Methylbenzo- $\beta$ -Ketopentamethylenazinmethylsäure. Zers. bei 220° (Bl. [3] 25, 721).  
 29) 2-Amid d. 3-Phenylpyridin-2,3<sup>2</sup>-Dicarbonsäure. Sm. 200°. Ag,  $H_2CrO_7$ , Pikrat (B. 35, 298 C. 1902 [1] 591).  
 30) Verbindung (aus 2-Amido-1,3-Dioxybenzol-1-Methyläther). Sm. 300 bis 302° u. Zers. (B. 35, 1482 C. 1902 [1] 1209).
- $C_{13}H_{10}O_4N_2$  \*2) 2,4'-Dinitrodiphenylmethan. Sm. 118° (J. pr. [2] 65, 305 C. 1902 [1] 1350).  
 23) 2,2'-Dinitrodiphenylmethan. Sm. 159° (J. pr. [2] 65, 324, 327 C. 1902 [1] 1351).  
 24) 2-Acetoximidomethylchinolin-4-Carbonsäure. Sm. 195° (J. pr. [2] 66, 264 C. 1902 [2] 1128).
- $C_{13}H_{10}O_4N_4$  11) 4-Nitrophenylhydrazonphenylnitromethan. Sm. 140,5° (B. 34, 2020, 2022).  
 12)  $\alpha$ -Phenyl- $\beta$ -[2,4-Dinitrobenzyliden]hydrazin. Sm. 216—232° u. Zers. (227—228°) (B. 35, 1230 C. 1902 [1] 1000; B. 35, 1267 C. 1902 [1] 1102; M. 23, 556 C. 1902 [2] 742).  
 13) 2-Nitrodiazoamidobenzol-2'-Carbonsäure. Sm. 140° u. Zers. (J. pr. [2] 63, 299).  
 14) 3-Nitrodiazoamidobenzol-2'-Carbonsäure. Sm. 166,5° u. Zers. (J. pr. [2] 63, 299).  
 15) 4-Nitrodiazoamidobenzol-2'-Carbonsäure. Sm. 171° u. Zers. (J. pr. [2] 63, 300).
- $C_{13}H_{10}O_4S$  5) isom. Diphenylsulfon-2-Carbonsäure. Sm. 267—268°. Na, Ca +  $4\frac{1}{2}H_2O$ , Ba +  $3H_2O$ , Sr +  $3H_2O$ , Mg +  $8H_2O$ , Zn +  $3H_2O$ , Cu +  $2H_2O$  (Am. 25, 99). — \*II, 604.
- $C_{13}H_{10}O_5Br_2$  2) Methyl ester d. 2,2-Dibrom-6-Methoxyl-1,3-Diketo-4-Methyl-2,3-Dihydroinden-7-Carbonsäure. Sm. 141—143° (B. 34, 2160).
- $C_{13}H_{10}O_6N_2$  7) Di[ $\beta$ -Nitro- $\beta$ -Oxyphenyl]methan. (OH :  $NO_2 = 1 : 2$ ). Sm. 200° u. Zers. (D.R.P. 72490). — \*II, 604.  
 8) isom. Di[ $\beta$ -Nitro- $\beta$ -Oxyphenyl]methan. (OH :  $NO_2 = 1 : 3$ ). Sm. 110° (D.R.P. 73951). — \*II, 604.  
 9) Di[ $\beta$ -Nitro- $\beta$ -Oxyphenyl]methan. (OH :  $NO_2 = 1 : 4$ ). Sm. 230° u. Zers. (D.R.P. 73946). — \*II, 604.
- $C_{13}H_{10}NCl$  4) 4-Chlorbenzylidenamidobenzol. Sm. 66° (62°) (B. 34, 832; J. pr. [2] 65, 263 C. 1902 [1] 1213).  
 5) 4-Chlor-1-Benzylidenamidobenzol. Sm. 62°. HCl (B. 34, 829).  
 1) 4-Brom-1-Benzylidenamidobenzol. Sm. 67°. HCl (B. 34, 831).
- $C_{13}H_{10}N_2Cl_3$  3) Di[4-Chlorphenyl]formamidin. Sm. 179°. Pikrat (B. 35, 2499 C. 1902 [2] 436).
- $C_{13}H_{11}ON$  \*1) 2-Oxy-1-Phenylimidomethylbenzol(2-Oxybenzylidenamidobenzol). Sm. 51° (B. 34, 832).  
 \*20) Phenylamid d. Benzolcarbonsäure (C. 1902 [2] 792).  
 26) 2-Oxybenzylidenamidobenzol.  $H_2SO_3$  (A. 316, 142).  
 27) 2-Amido-9-Oxyfluoren. Sm. 196° (B. 34, 1767).  
 28) 3-Methylphenoxazin. Sm. 123—125° (A. 322, 17 C. 1902 [2] 221).
- $C_{13}H_{11}ON_3$  13) 2-[4-Oxyphenyl]-5- oder 6-Methyl-2,1,3-Benzotriazol (Oxyphenyl-pseudorthoazimidotoluol). Sm. 217—218° (C. r. 134, 607 C. 1902 [1] 874).
- $C_{13}H_{11}O_3N$  54) Phenyl-2,4-Dioxybenzylidenamin. Sm. 125—126° (B. 35, 995 C. 1902 [1] 872).  
 55) 4-[4-Oxybenzyliden]amido-1-Oxybenzol (D.R.P. 135335 C. 1902 [2] 1166).

- $C_{15}H_{11}O_2N$  56) 4'-Amidobiphenyl-2- oder 2'-Carbonsäure. Sm. 215° (*B.* 34, 1766).  
57)  $\alpha$ -[2-Naphtyl]imidopropionsäure. Sm. 132° (*Bl.* [3] 13, 358). — \*II, 339.
- $C_{13}H_{11}O_2N_3$  \*11) Phenylhydrazonphenylnitromethan. Sm. 101,5—102,5° (*B.* 34, 2009, 2020).  
\*19) Benzyliden-4-Nitrophenylhydrazin. Sm. 192—193° (*A.* 324, 321 *C.* 1902 [2] 1505).  
21) 1-Amido-4-[4-Nitrobenzyliden]amidobenzol (D.R.P. 135335 *C.* 1902 [2] 1167).  
22)  $\alpha$ -Nitroso- $\beta$ -Benzoyl- $\alpha$ -Phenylhydrazin. Sm. 110° u. Zers. Na, Ag (*B.* 34, 2352; *B.* 35, 1944 *C.* 1902 [2] 112).  
23) 4'-Nitro-4-Methylazobenzol. Sm. 181° (*B.* 35, 1427 *C.* 1902 [1] 1206).  
24) Diazoamidobenzol-2-Carbonsäure. Zers. bei 50—60°. Na (*J. pr.* [2] 63, 270).  
25) Verbindung (aus 2-Nitro-4'-Oxy-4-Methylazobenzol). Sm. 240—241° (*C. r.* 134, 606 *C.* 1902 [1] 874).
- $C_{13}H_{11}O_2N_5$  \*1) Nitroformazyl. Sm. 157° (*B.* 34, 586).  
 $C_{13}H_{11}O_2Cl$  5) Aethylester d. 3-Chlornaphtalin-2-Carbonsäure. Sm. 50°; Sd. 218 bis 222°<sub>180</sub> (*B.* 34, 4160 *C.* 1902 [1] 317).
- $C_{13}H_{11}O_2P$  1) Phosphino-4-Benzylbenzol (Phosphinodiphenylmethan). Sm. 169° (*A.* 315, 45).  
2) 4-Benzylphenylphosphinige Säure. Sm. 84° (*A.* 315, 44).
- $C_{13}H_{11}O_3N$  34) 2'-Nitro-2-Methyldiphenyläther. Sd. 194—196°<sub>15</sub> (*C.* 1902 [1] 36).  
35) 2'-Nitro-3-Methyldiphenyläther. Sd. 223°<sub>30</sub> (*C.* 1902 [1] 36).  
36) 4'-Nitro-4-Methyldiphenyläther. Sm. 69° (*B.* 34, 3770 *C.* 1902 [1] 36).  
37) Benzyläther d. 4-Nitro-1-Oxybenzol. Sm. 108° (*B.* 34, 1943).  
38) Phenyl-2,3,4-Trioxybenzylidenamin. Sm. 194—195° (*B.* 35, 997 *C.* 1902 [1] 872).  
39) 4-Amidophenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 151—152°. HCl (D.R.P. 62533). — \*II, 888.  
40) Benzoat d. 2-[ $\alpha$ -Oximidoäthyl]furan. Sm. 97—98° (*B.* 34, 1073).
- $C_{13}H_{11}O_3N_3$  \*11) 4-Nitrophenyl-2-Oxybenzylidenhydrazin. Sm. 227° (*A.* 324, 323 *C.* 1902 [2] 1505).  
\*17) 4'-Nitro-4-Oxy-3-Methylazobenzol. Sm. 202° (*J. pr.* [2] 65, 465 *C.* 1902 [2] 40).  
\*22) Phenylhydrazid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 200—201° (*B.* 35, 765 *C.* 1902 [1] 814).  
32)  $\beta$ -Methylenamidonitro-4-Oxydiphenylamin (D.R.P. 135335 *C.* 1902 [2] 1167).  
33) 3-Nitro-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 175° (*A.* 321, 25 *C.* 1902 [1] 928).  
34) 3'-Nitro-4'-Oxy-2-Methylazobenzol. Sm. 146° (*Soc.* 79, 156).  
35) 3'-Nitro-4'-Oxy-3-Methylazobenzol. Sm. 128,5° (*Soc.* 79, 157).  
36) 4'-Nitro-6-Oxy-3-Methylazobenzol. Sm. 186,5° (*J. pr.* [2] 65, 453 *C.* 1902 [2] 38).  
37) 3'-Nitro-4'-Oxy-4-Methylazobenzol. Sm. 147° (*Soc.* 79, 158).  
38)  $\beta$ -Oximido- $\beta$ -[4-Nitrophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 152°. HCl (*B.* 35, 1165 *C.* 1902 [1] 1015).  
39) Phenylhydrazid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 205° (*B.* 34, 185).
- $C_{13}H_{11}O_4N$  19) 2-Naphtylamidomalonsäure. Sm. 111° (D.R.P. 95268 *C.* 1898 [1] 542). — \*II, 342.
- $C_{13}H_{11}O_4N_3$  17) Phenyl-2,4-Dinitrobenzylamin. Sm. 95° (132°?). HCl, Pikrat (*B.* 35, 1236 *C.* 1902 [1] 1001; *B.* 35, 1266 *C.* 1902 [1] 1102; *M.* 23, 548 *C.* 1902 [2] 741).
- $C_{13}H_{11}O_4Cl$  1) Acetat d. 5- oder 7-Oxy-4,7- oder 4,5-Dimethyl-1,2-Benzpyron. Sm. 160° (*B.* 34, 359).
- $C_{13}H_{11}O_4P$  2) 4-Benzoylphenylphosphinsäure. Sm. 204°. Ag<sub>2</sub> (*A.* 315, 46).  
 $C_{13}H_{11}O_6N_3$  1) Monoäthylester d. Anhydro-4-Nitrophenylazoacetondicarbonsäure. Sm. 180° (*B.* 34, 83).
- $C_{13}H_{11}O_6P$  \*1) Phenylester d. Phenylphosphorsäure-2-Carbonsäure. K, Li (*C.* 1901 [2] 734).

- $C_{13}H_{11}N_2Cl$  7) Chlormethylat d. Phenazon.  $2 + PtCl_4$  (*J. pr.* [2] 65, 297 *C.* 1902 [1] 1235).
- $C_{13}H_{11}N_2Br$  2) Benzyliden-4-Bromphenylhydrazin. Sm. 127,5° (*A.* 324, 314 *C.* 1902 [2] 1505).
- $C_{13}H_{11}N_2J$  7) Jodmethylat d. Phenazon. Sm. 185—187° (*J. pr.* [2] 65, 298 *C.* 1902 [1] 1235).
- $C_{13}H_{11}Cl_3P$  1) 4-Benzylphenyldichlorphosphin. Sd. 221° (*A.* 315, 43).
- $C_{13}H_{11}Cl_3P$  1) 4-Benzylphenylphosphortetrachlorid. Sm. 80° (*A.* 315, 44).
- $C_{13}H_{12}ON_2$  \*2) s-Diphenylharnstoff. Sm. 235—236° (*C.* 1902 [1] 20; *B.* 35, 1654 *Ann.* *C.* 1902 [1] 1358; *B.* 35, 2750 *C.* 1902 [2] 640).
- \*3) uns-Diphenylharnstoff (*C.* 1902 [1] 20).
- \*9) 2,2'-Diamidodiphenylketon.  $2HCl$ ,  $2HBr$ ,  $H_2SO_4 + xH_2O$ ,  $2H_2SO_4$  (*J. pr.* [2] 65, 334 *C.* 1902 [1] 1352).
- \*11) 2,4'-Diamidodiphenylketon. Sm. 128—129° (*J. pr.* [2] 65, 310 *C.* 1902 [1] 1350).
- \*39) Harmin. Sm. 257—259° (*C.* 1901 [1] 958).
- \*43) 3-Amidophenylamid d. Benzolcarbonsäure. Sm. 125° (*B.* 35, 3342 *C.* 1902 [2] 1194).
- 56)  $\alpha$ -Phenylimido- $\alpha$ -Phenylhydroxylamidomethan  $+ H_2O$ . Sm. 94—95° (126—127°; 130—131° wasserfrei).  $HCl$ ,  $HNO_3$ ,  $Cu$  (*B.* 35, 721 *C.* 1902 [1] 718; *B.* 35, 1452 *C.* 1902 [1] 1157; *B.* 35, 720, 1876 *C.* 1902 [2] 32).
- 57) 2-Keto-1,3-Dimethyl-2,3-Dihydro- $\beta$ -Naphthimidazol. Sm. 171° (*B.* 34, 940).
- 58) Phenylamid d. 4-Amidobenzol-1-Carbonsäure (D.R.P. 81152). — \*II, 791.
- $C_{13}H_{12}O_2N_2$  \*1) 3-[4-Methylphenyl]nitrosamido-1-Oxybenzol. Sm. 127° (*J. pr.* [2] 65, 65 *C.* 1902 [1] 579).
- \*25) 2-Methyläther d. 2,4-Dioxyazobenzol. Sm. 123° (*Am.* 26, 164).
- 52) 4'-Nitroso-3'-Oxy-4-Methyldiphenylamin. Sm. 162,2° (*J. pr.* [2] 65, 66 *C.* 1902 [1] 579).
- $C_{13}H_{12}O_2N_4$  \*6) 4'-Nitro-4-Methyldiazoamidobenzol. Sm. 158,5° (161,5°) (*J. pr.* [2] 65, 450 *C.* 1902 [2] 38).
- 15) 2-Amido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 218° (*B.* 34, 1334).
- 16) 4-Nitro-2-Amido-1-Phenylhydrazonmethylbenzol (oder 2-Nitro-4-Amido-1-Phenylhydrazonmethylbenzol). Sm. 163° (*B.* 35, 1235 *C.* 1902 [1] 1001).
- 17) 2-Nitro-2'-Methyldiazoamidobenzol. Sm. 134—135° (*J. pr.* [2] 65, 467 *C.* 1902 [2] 40).
- 18) 3-Nitro-2'-Methyldiazoamidobenzol. Sm. 110—111° (*J. pr.* [2] 65, 466 *C.* 1902 [2] 40).
- 19) 4-Nitro-2'-Methyldiazoamidobenzol. Sm. 135° u. Zers. (138—141° u. Zers.) (*J. pr.* [2] 65, 463 *C.* 1902 [2] 39).
- 20) 2-Nitro-3'-Methyldiazoamidobenzol. Sm. 113—115° (*J. pr.* [2] 65, 461 *C.* 1902 [2] 39).
- 21) 3-Nitro-3'-Methyldiazoamidobenzol. Sm. 89—92° (*J. pr.* [2] 65, 460 *C.* 1902 [2] 39).
- 22) 4-Nitro-3'-Methyldiazoamidobenzol. Sm. 138° (*J. pr.* [2] 65, 459 *C.* 1902 [2] 39).
- 23) 2-Nitro-4'-Methyldiazoamidobenzol. Sm. 112,5° (*J. pr.* [2] 65, 455 *C.* 1902 [2] 39).
- 24) 2'-Nitro-4-Amido-2-Methylazobenzol. Sm. 119—121° (*J. pr.* [2] 65, 462 *C.* 1902 [2] 39).
- 25) 3'-Nitro-4-Amido-2-Methylazobenzol. Sm. 172° (*J. pr.* [2] 65, 459 *C.* 1902 [2] 39).
- 26) 4'-Nitro-4-Amido-2-Methylazobenzol. Sm. 152—153° (*J. pr.* [2] 65, 457 *C.* 1902 [2] 39).
- 27) 2'-Nitro-4-Amido-3-Methylazobenzol. Sm. 99° (*J. pr.* [2] 65, 468 *C.* 1902 [2] 40).
- 28) 3'-Nitro-4-Amido-3-Methylazobenzol. Sm. 151—152° (*J. pr.* [2] 65, 467 *C.* 1902 [2] 40).
- 29) 4'-Nitro-4-Amido-3-Methylazobenzol. Sm. 200—201° (195—197°) (D.R.P. 131860 *C.* 1902 [2] 83; *J. pr.* [2] 65, 464 *C.* 1902 [2] 39).
- $C_{13}H_{13}O_3S$  5) Phenyl-2-Methylphenylsulfon. Sm. 67,5° (*Am.* 25, 99). — \*II, 482.



- $C_{13}H_{12}O_3N_2$  \*29)  $\beta$ -Oxy- $\beta$ -[2-Nitrophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 137° (B. 34, 2235).  
 32)  $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -Phenylmethan. Sm. 85—86° HCl (B. 35, 989 C. 1902 [1] 870).  
 33) 4-Oxyphenyl-4-Nitrobenzylamin (D.R.P. 135335 C. 1902 [2] 1166).  
 34)  $\beta$ -Oxy- $\beta$ -[4-Nitrophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 165°. HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>2</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 35, 1163 C. 1902 [1] 1015).
- $C_{18}H_{12}O_3S$  3) Phenylester d. 1-Methylbenzol-2-Sulfonsäure. Sm. 52° (D.R.P. 91314). — \*II, 367.  
 4) Phenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 95—96° (B. 35, 1443 C. 1902 [1] 1201).
- $C_{13}H_{12}O_4N_4$  \*5) 2,2'-Dinitro-4,4'-Diamidodiphenylmethan. Sm. 205°. 2HCl + 2 $\frac{1}{2}$ H<sub>2</sub>O (J. pr. [2] 65, 320 C. 1902 [1] 1351).  
 10)  $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Amidophenyl]methan. Sm. 227—228° (B. 35, 740 C. 1902 [1] 753).
- $C_{13}H_{12}O_4Cl_4$  1) Monoisoamylester d. 3, 4, 5, 6-Tetrachlorbenzol-1, 2-Dicarbonsäure. Sm. 112—113° (B. 35, 1605 C. 1902 [1] 1271).  
 2) Mono- $\beta$ -Methylbutylester d. 3, 4, 5, 6-Tetrachlorbenzol-1, 2-Dicarbonsäure. Sm. 94—95° (B. 35, 1605 C. 1902 [1] 1271).
- $C_{13}H_{12}O_6N_4$  5) Aethylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\alpha$ -[4, 5-Dihydroisoxazolyl-3]-essigsäure. Sm. 162—163° (B. 34, 89).  
 C 48,2 — H 3,7 — O 39,5 — N 8,6 — M. G. 324.
- $C_{13}H_{12}O_8N_2$  1) Aethylester d.  $\alpha$ -[3, 5-Dinitrobenzoyl]acetessigsäure. Sm. 92° (J. pr. [2] 65, 292 C. 1902 [1] 1217).  
 C 41,9 — H 3,2 — O 47,3 — N 7,5 — M. G. 372.
- $C_{13}H_{12}O_{11}N_2$  1) Aethylester d. 2, 6-Dinitro-*p*-Diacetyl-3, 4, 5-Trioxybenzol-1-Carbonsäure. Sm. 165° (Soc. 81, 74 C. 1902 [1] 194).
- $C_{13}H_{12}N_2Br_2$  1)  $\alpha\beta$ -Dibrom- $\alpha$ -[3-Amidophenyl]- $\beta$ -[2-Pyridyl]äthan. Sm. 86—96°. HCl (Ar. 240, 254 C. 1902 [2] 130).
- $C_{13}H_{12}N_2S$  \*1) s-Diphenylthioharnstoff. Sm. 151—152° (154°) (C. 1900 [2] 530; 1901 [2] 198; 1902 [1] 20; B. 34, 2034).
- $C_{13}H_{12}N_2S_2$  6) 1-Naphtylhydrazonmethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan. Sm. 148°. HCl (J. pr. [2] 60, 227; [2] 61, 337).  
 7) 2-Naphtylhydrazonmethylenäther d.  $\alpha\beta$ -Dimerkaptoäthan. HCl (J. pr. [2] 60, 227; [2] 61, 337).
- $C_{13}H_{12}N_4S_2$  1)  $\alpha$ -Phenyl- $\alpha\alpha$ -Di[2-Thiazolylamido]methan (Benzylidenbis-2-Amidothiazol). Sm. 108—121° (B. 34, 834).
- $C_{13}H_{12}ClI$  \*2) Phenyl-4-Methylphenyljodoniumchlorid. Sm. 193° (Soc. 81, 1361 C. 1902 [2] 1196).
- $C_{13}H_{12}ClP$  1) Phenyl-4-Methylphenylchlorphosphin. Sd. 340° (A. 315, 59).  
 $C_{18}H_{12}ClAs$  1) Phenyl-4-Methylphenylchlorarsin. Sd. 215—237°<sub>99</sub> (A. 321, 155 C. 1902 [2] 43).
- $C_{13}H_{12}Cl_3P$  1) Phenyl-4-Methylphenylphosphortrichlorid (A. 315, 59).  
 $C_{13}H_{13}ON$  \*5) 3-[4-Methylphenyl]amido-1-Oxybenzol(3'-Oxy-4-Methyldiphenylamin). Sm. 92° (J. pr. [2] 65, 49 C. 1902 [1] 578).  
 \*32)  $\beta$ -Oxy- $\beta$ -Phenyl-[ $\alpha$ -2-Pyridyl]äthan. Bitartrat (B. 32, 2233, 2237).  
 34)  $\alpha$ -Phenylmethanido- $\alpha$ -Oxy- $\alpha$ -Phenylmethan (Phenyl- $\alpha$ -Oxybenzylamin). HCl (B. 35, 988 C. 1902 [1] 870).  
 35) 2'-Amido-2-Methyldiphenyläther. HCl (C. 1902 [1] 36).  
 36) 2'-Amido-3-Methyldiphenyläther. HCl (C. 1902 [1] 36).  
 37) 4'-Amido-4-Methyldiphenyläther. Sm. 123° (B. 34, 3770 C. 1902 [1] 36).  
 38) Benzyläther d. 4-Amido-1-Oxybenzol. Sm. 56°. HCl (B. 34, 1944).  
 39) 3-Acetyl-2-Methyl-4-Phenylpyrrol. Sm. 151° (B. 35, 3004 C. 1902 [2] 1120).  
 40) 3-Acetyl-2-Methyl-5-Phenylpyrrol. Sm. 177—178° (C. r. 134, 844 C. 1902 [1] 1164).  
 41)  $\beta\gamma$ -Methylcyklotrimethylenearbostyryl. Sm. 253° (A. 315, 92).
- $C_{13}H_{13}ON$  \*16) 1-[2-Methylphenyl]oxyamidodiazobenzol. Sm. 79° (A. 316, 273).  
 \*17) 1-[4-Methylphenyl]oxyamidodiazobenzol. Sm. 124° (A. 316, 274).  
 19) 1-[3-Methylphenyl]oxyamidodiazobenzol. Sm. 125,5° (A. 316, 273).  
 20)  $\alpha$ -Oximido- $\alpha$ -Phenylazo- $\alpha$ -Phenylmethan. Sm. 134—135° (B. 35, 1091 C. 1902 [1] 996).  
 21) Verbindung (aus Anthranil u. Phenylhydrazin). Sm. 155° u. Zers. (B. 34, 3792 C. 1902 [1] 41).

- $C_{13}H_{13}OJ$  \*2) Phenyl-4-Methylphenyljodoniumoxyhydrat. Chlorid, Jodid, Nitrat, Bichromat, Bromcamphersulfonat +  $H_2O$  (Soc. 81, 1353 C. 1902 [2] 1196).
- $C_{13}H_{13}O_2N$  38)  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -[2-Oxyphenyl]methan. Sm. 48°. HCl (B. 35, 990 C. 1902 [1] 870).
- 39)  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -[4-Oxyphenyl]methan. Sm. 170—175°. HCl (B. 35, 991 C. 1902 [1] 870).
- 40) 3-[ $\alpha$ -Oximidoäthyl]-2-Methyl-5-Phenylfuran. Sm. 111—112° (C. r. 134, 845 C. 1902 [1] 1164).
- 41) 5-Keto-4-Isobutyliden-2-Phenyl-4,5-Dihydrooxazol. Sm. 87° (A. 316, 151).
- 42) 4-Benzoylmethyl-3,5-Dimethylisoxazol. Sm. 124—125° (C. r. 134, 844 C. 1902 [1] 1164).
- 43) 2-Phenylpyrrol-5-[Äthyl- $\beta$ -Carbonsäure]. Sm. 140—141°. Ca, Ag (B. 34, 1266; B. 35, 2010 C. 1902 [2] 125).
- 44) 2,5-Dimethyl-1-Phenylpyrrol-3-Carbonsäure. Sm. 205° u. Zers. (B. 35, 1547 C. 1902 [1] 1226).
- 45) Äthylester d. 1-Phenylpyrrol-2-Carbonsäure. Sd. 289° (C. 1902 [1] 1298; B. 35, 2532 C. 1902 [2] 452).
- 46) Methylamid d. 2-Methyl-5-Phenylfuran-3-Carbonsäure. Sm. 146 bis 148° (C. r. 134, 845 C. 1902 [1] 1164).
- $C_{13}H_{13}O_3N_3$  11) Acetat d. 5-Oxy-1-Methyl-3-[ $\beta$ -Phenyläthenyl]-1,2,4-Triazol. Sm. 88—89° (Soc. 79, 666).
- $C_{13}H_{13}O_3P$  1) Phenyl-4-Methylphenylphosphinsäure. Sm. 116° (A. 315, 59).
- $C_{13}H_{13}O_3As$  1) Phenyl-4-Methylphenylarsinsäure. Sm. 158—160°. Ag (A. 321, 157 C. 1902 [2] 43).
- $C_{13}H_{13}O_3N$  \*9) Äthylester d.  $\alpha$ -Cyan- $\beta$ -[4-Methoxyphenyl]akrylsäure. Sm. 85° (C. 1902 [2] 741).
- 24)  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -[2,4-Dioxyphenyl]methan. Sm. 110°. HCl (B. 35, 994 C. 1902 [1] 872).
- 25) 2-Keto-6-Methyl-4-Phenyl-1,2,3,4-Tetrahydropyridin-5-Carbonsäure. Sm. 189—190°. Ag (B. 35, 2176 C. 1902 [2] 373).
- 26) Äthylester d. 2-Acetylamidophenylpropionsäure. Sm. 124° (B. 34, 2716).
- 27) Äthylester d. 2-Keto-4-Methyl-1,2-Dihydrochinolin-3-Carbonsäure. Sm. 251—252° (Ar. 240, 142 C. 1902 [1] 818).
- $C_{13}H_{13}O_3N_3$  9) 6-Oxy-4-Methyl-5-Äthyl-2-[4-Nitrophenyl]-1,3-Diazin. Sm. 292° u. Zers. (B. 34, 1985).
- 10) 2,4,6-Triketo-5-[4-Dimethylamidobenzyliden]hexahydro-1,3-Diazin +  $H_2O$ . Sm. 282° u. Zers. (268° u. Zers.) (B. 34, 1686; B. 35, 3578 C. 1902 [2] 1384).
- $C_{13}H_{13}O_3P$  4) 4-Benzylphenylphosphinsäure. Sm. 196°. K, Ba +  $H_2O$ , Co + 4 $H_2O$  (A. 315, 45).
- $C_{13}H_{13}O_4N$  \*8) Äthylester d. 3-Acetoxyindol-2-Carbonsäure. Sm. 136° (B. 34, 1854; D.R.P. 131400 C. 1902 [1] 1343).
- 18)  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -[2,3,4-Trioxyphenyl]methan. Sm. 179 bis 180°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 35, 996 C. 1902 [1] 872).
- 19) Äthylester d. 1-Acetyl-3-Oxyindol-2-Carbonsäure. Sm. 114—115° (B. 35, 1692 C. 1902 [1] 1363).
- 20) Äthylester d. 3-Oxy-1-Acetylindol-2-Carbonsäure. Sm. 115° (D.R.P. 126962 C. 1902 [1] 82).
- $C_{13}H_{13}O_4N_3$  2) 2-Methylester- $\alpha$ -Äthylester d. labil. Phenylhydrazoncyanessigsäure-2-Carbonsäure. Sm. 139—140° (J. pr. [2] 63, 12).
- 3) 2-Methylester- $\alpha$ -Äthylester d. stabil. Phenylhydrazoncyanessigsäure-2-Carbonsäure. Sm. 155° (J. pr. [2] 63, 12).
- $C_{13}H_{13}O_5N$  6) 1-Methylester-2-Äthylester d. 3-Oxyindol-1,2-Dicarbonsäure (Carboxymethylindoxylsäureäthylester) (D.R.P. 126962 C. 1902 [1] 83).
- 7) Äthylester d. 4,5,7-Trioxo-2-Methylchinolin-3- oder 6-Carbonsäure. Sm. 268—269° (B. 31, 774; B. 35, 2178 C. 1902 [2] 374).
- $C_{13}H_{13}O_5Br$  2) Methylester d.  $\alpha$ -Brom- $\beta$ -Methoxy- $\beta$ -[3,5-Dibrom-4-Acetoxyphenyl]propionsäure. Sm. 142° (A. 322, 227 C. 1902 [2] 277).
- $C_{13}H_{13}O_6N$  \*3) Äthylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -[4-Nitrophenyl]butan- $\beta$ -Carbonsäure. Sm. 53—55° (B. 35, 930 C. 1902 [1] 807).
- 5) Äthylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -[3-Nitrophenyl]butan- $\beta$ -Carbonsäure. Sm. 74—75° (B. 35, 932 C. 1902 [1] 808).

- $C_{13}H_{13}O_6N$  6) Aethylester d.  $\alpha$ -[4-Nitrobenzoxyl]propen- $\beta$ -Carbonsäure. Sm. 120 bis 121° (*A.* 316, 335).
- 7) Aethylester d. isom.  $\alpha$ -[4-Nitrobenzoxyl]propen- $\beta$ -Carbonsäure. Sm. 140–142° (*A.* 316, 336).
- $C_{13}H_{13}O_6N_3$  C 50,8 — H 4,2 — O 31,3 — N 13,7 — M. G. 307.
- $C_{13}H_{13}O_7N$  1) Aethylester d. 4-Nitro- $\alpha$ -Imidobenzylamidoformylxolessigsäure (Aethoxalylacetyl-p-Nitrobenzamidin). Sm. 205° u. Zers. (*B.* 34, 1987).
- 2) Lakton d.  $\alpha$ -Oxy- $\gamma$ -Keto- $\alpha$ -[6-Nitro-3,4-Dimethoxyphenyl]butan-2-Carbonsäure (Acetonilnitromekonin). Sm. 175° (*B.* 35, 1499 *C.* 1902 [1] 1218).
- $C_{13}H_{13}NCl_2$  2) Verbindung (aus Tetrahydrocarbazol) (*C.* 1901 [1] 1323).
- $C_{13}H_{13}NS$  1) 4'-Amido-4-Methyldiphenylsulfid. Sm. 72° (*J. pr.* [2] 63, 179).
- $C_{13}H_{13}N_2Cl$  5) 5'-Chlor-2'-Amido-4-Methyldiphenylamin. Sm. 126°. HCl (*C.* 1901 [1] 154; *B.* 34, 1103).
- 6) 4-Chlor-1,8-Isopropylidendiamidonaphtalin (*C.* 1901 [2] 448).
- $C_{13}H_{13}N_3S$  \*5)  $\alpha$ -Amido- $\alpha$ - $\beta$ -Diphenylthioharnstoff (*B.* 34, 321).
- \*6)  $\beta$ -Phenylamido- $\alpha$ -Phenylthioharnstoff. Sm. 176° (*B.* 34, 321; *J. pr.* [2] 65, 383 *C.* 1902 [1] 1330).
- $C_{13}H_{13}N_4Cl$  2) 3-Chlor-4,6-Diamido-2-Methylazobenzol. Sm. 134° (*Soc.* 81, 97 *C.* 1902 [1] 186, 416).
- 3) 5-Chlor-2,6-Diamido-3-Methylazobenzol. Sm. 147° (*Soc.* 81, 96 *C.* 1902 [1] 186, 416).
- $C_{13}H_{13}N_4Br$  1) 4'-Brom-4,6-Diamido-3-Methylazobenzol. Sm. 179–180° (*Soc.* 81, 1384 *C.* 1902 [2] 1189).
- $C_{13}H_{14}ON_2$  \*21) Harmalin (*C.* 1901 [1] 959).
- 27) 4'-Amido-4-Oxy-3-Methyldiphenylamin. Sm. 166° (*C.* 1901 [1] 549).
- 28) 4'-Amido-3'-Oxy-4-Methyldiphenylamin. Sm. 149°. HCl (*J. pr.* [2] 65, 68 *C.* 1902 [1] 579).
- 29) 4-Methylamido-4'-Oxydiphenylamin. Sm. 171° (*D.R.P.* 133481 *C.* 1902 [2] 555).
- 30)  $\beta$ -Oxy- $\beta$ -[4-Amidophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 135°. HCl, (HCl,  $HgCl_2$ ), (2HCl,  $PtCl_4$ ), Pikrat (*B.* 35, 1164 *C.* 1902 [1] 1015).
- 31) Aethyläther d. 2-[4-Oxyphenyl]amidopyridin. Sm. 94° (*B.* 35, 3675 *C.* 1902 [2] 1473).
- 32) Phenylcyklotetramethylenpyrazolon. Sm. 165° (*A.* 317, 102).
- 33) Aethyläther d. 6-Oxy-5-Methyl-3-Phenyl-1,2-Diazin (Ae. d. Oxy-methylphenylpyridazin). Sm. 103–104°. Pikrat (*B.* 34, 4233 *C.* 1902 [1] 213).
- 34) Aethyläther d. 6-Oxy-3-[4-Methylphenyl]-1,2-Diazin. Sm. 106°. (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ),  $H_2Cr_2O_7$ , Pikrat (*B.* 34, 3831 *C.* 1902 [1] 52).
- 35) 3-Keto-2-Aethyl-6-[4-Methylphenyl]-2,3-Dihydro-1,2-Diazin (Aethyl-p-Tolylpyridazon). Sm. 96–97° (*B.* 34, 3830 *C.* 1902 [1] 51).
- 36) 2-Oxy-1,3-Dimethyl-2,3-Dihydro- $\beta$ -Naphtimidazol. Sm. 123° (*B.* 34, 939).
- 37) Verbindung (aus d. Aethylester  $C_9H_{14}O_3$ ). Sm. 143° (*M.* 23, 861 *C.* 1902 [2] 1410).
- $C_{13}H_{14}ON_4$  \*5) Diphenylcarbazon. Salze siehe (*B.* [3] 25, 451, 758).
- $C_{13}H_{14}O_2N_2$  \*1) Di[Phenylhydroxylamido]methan. Sm. 106,5° (*B.* 35, 709 *C.* 1902 [1] 717).
- 23) 4-[ $\beta$ -Oximido- $\beta$ -Phenyläthyl]-3,5-Dimethylisoxazol. Sm. 131° (*C. r.* 134, 844 *C.* 1902 [1] 1164).
- 24) 2,4-Diketo-3-Allyl-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 67 bis 68° (*J. pr.* [2] 66, 241 *C.* 1902 [2] 1123).
- 25) 2,4-Diketo-3-Allyl-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 98 bis 99° (*J. pr.* [2] 66, 244 *C.* 1902 [2] 1123).
- 26) 2,4-Diketo-3-Allyl-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 125° (*J. pr.* [2] 66, 239 *C.* 1902 [2] 1122).
- 27) 3,5-Dimethyl-1-Phenylpyrazol-4-Methylcarbonsäure. Sm. 140 bis 141°. Cu (*C.* 1902 [2] 345).
- 28) Aethylester d.  $\alpha$ -Cyan- $\beta$ -[2-Methylphenyl]amidoakrylsäure. Sm. 137–138° (*B.* 35, 2511 *C.* 1902 [2] 439).
- 29) Aethylester d.  $\alpha$ -Cyan- $\beta$ -[4-Methylphenyl]amidoakrylsäure. Sm. 137° (*B.* 35, 2510 *C.* 1902 [2] 439).

- $C_{13}H_{14}O_2N_2$  30) Aethylester d.  $\beta$ -[1-Naphtyl]hydrazidoameisensäure. Sm. 107 bis 108° (B. 34, 2324).
- 31) Aethylester d.  $\beta$ -[2-Naphtyl]hydrazidoameisensäure. Sm. 105,5° (B. 34, 2325).
- 32) Propylester d.  $\alpha$ -Cyan- $\beta$ -Phenylamidoakrylsäure. Sm. 89—90° (Bl. 3] 25, 45).
- 33) Nitril d.  $\gamma$ -Benzoximido- $\beta$ -Methylbutan- $\beta$ -Carbonsäure. Sm. 64° (B. 35, 3727 C. 1902 [2] 1404).
- $C_{11}H_4O_2Cl_2$  1) 2,4-Di[Chloracetyl]-1,3,5-Trimethylbenzol. 2 +  $Al_2Br_6$  (Am. 27, 252 C. 1902 [1] 1292).
- $C_{13}H_{14}O_4N_2$  23) Aethylester d. 2-Acetylcyanmethylamidobenzol-1-Carbonsäure. Fl. (B. 35, 1686 C. 1902 [1] 1362).
- $C_{13}H_{14}O_4N_6$  1) Azid d. Benzoylamidoacetylamidoacetylamidoessigsäure. Sm. 162° (B. 35, 3227 C. 1902 [2] 1043).
- $C_{13}H_{14}O_4S$  1) Methylester d. 1-Oxynaphtalinäthyläther-4-Sulfonsäure. Sm. 105 bis 106° (B. 34, 3182). — \*II, 511.
- $C_{13}H_{14}O_5Br_2$  \*1) Diacetat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol-2-Oxymethyläther. Sm. 95° (B. 35, 435 C. 1902 [1] 641).
- 2) Diacetat d. 3,6-Dibrom-1-Oxy-4-Keto-2,5-Dimethyl-1-Oxymethyl-1,4-Dihydrobenzol. Sm. 174—175° (B. 35, 452 Anm. C. 1902 [1] 644).
- $C_{13}H_{14}O_5N_2$  2) Dimethylester d.  $\beta$ -[2,4-Dinitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 50° (B. 35, 2075 C. 1902 [2] 206).
- $C_{13}H_{14}N_4S$  3) s-Di[4-Amidophenyl]thioharnstoff. Sm. 195° (B. 24 [2] 849; D.R.P. 127466 C. 1902 [1] 154).
- $C_{13}H_{15}ON$  18) Dimethylamidomethyläther d. 2-Oxynaphtalin. Sm. 76° (D.R.P. 89979, 90907, 90908. — \*II, 520).
- 19) 3-Methyl-2-[ $\beta$ -Oxyisopropyl]chinolin (Methylol- $\alpha$ -Aethyl- $\beta$ -Methylchinolin). Sm. 87—88° (2HCl, PtCl<sub>4</sub>) (B. 34, 4328 C. 1902 [1] 319).
- $C_{13}H_{15}ON_3$  2) 6-Oxy-4-Methyl-5-Aethyl-2-[4-Nitrophenyl]-1,3-Diazin. Sm. 246° u. Zers. (2HCl, PtCl<sub>4</sub>) (B. 34, 1986).
- $C_{13}H_{15}O_2N$  \*1)  $\alpha$ -[4-Methylphenyl]amido- $\gamma$ -Keto- $\beta$ -Aethanoyl- $\alpha$ -Buten. Sm. 140° (B. 35, 2505 C. 1902 [2] 438).
- 37) Dimethylamidomethyläther d. 2,7-Dioxynaphtalin. Sm. 160° (D.R.P. 89979). — \*II, 598.
- 38) 3-Methyl-2-[ $\beta$ -Oxyisopropyl]chinolin + H<sub>2</sub>O (Dimethylol- $\beta$ -Methylchinolinaldin). Sm. 85—86° (106—108° wasserfrei). HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 4331 C. 1902 [1] 319).
- 39)  $\alpha\gamma$ -Dioxy- $\beta$ -[2-Chinolyl]- $\beta$ -Methylpropan (Dimethylol- $\alpha$ -Aethylchinolin). Sm. 95—96°. HCl (B. 34, 4327 C. 1902 [1] 319).
- 40) Phenylimid einer isom. Dimethylglutarsäure. Sm. 189° (C. r. 134, 1114 C. 1902 [2] 26).
- $C_{13}H_{15}O_2N_3$  14) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Aethyl-1-Allylhexahydro-pyridin. Sm. 91—92° (C. 1901 [1] 579).
- $C_{13}H_{15}O_3N$  \*6) Aethylester d.  $\alpha$ -Phenylamido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 45—46° (B. 35, 2509 C. 1902 [2] 438).
- 15)  $\alpha$ -Benzoylamido- $\gamma$ -Methyl- $\alpha$ -Buten- $\alpha$ -Carbonsäure. Sm. 187°. Ca, Ba, Ag (A. 316, 152).
- 16) Aethylester d.  $\beta$ -Phenylakrylamidoessigsäure. Sm. 108° (J. pr. [2] 65, 191 C. 1902 [1] 982).
- 17) Phenylamid d. Pilopinsäure. Sm. 110° (Soc. 79, 1336 C. 1902 [1] 50).
- 18) 4-Aethoxyphenylimid d. Propan- $\alpha\beta$ -Dicarbonsäure (Methylpyrantin). Sm. 105—106° (C. 1901 [1] 377; Soc. 81, 795 C. 1902 [2] 108).
- 19) Oxim d. Verb.  $C_{13}H_{14}O_3$ . Sm. 172° (A. 322, 391 C. 1902 [2] 737).
- $C_{13}H_{15}O_3N_3$  3) Aethylester d. labil. 4-Aethoxyphenylhydrazoncyanessigsäure. Sm. 133—134° (J. pr. [2] 63, 11).
- 4) Aethylester d. stabil. 4-Aethoxyphenylhydrazoncyanessigsäure. Sm. 98° (J. pr. [2] 63, 10).
- $C_{13}H_{15}O_3Br$  1) 1,1-Diäthyläther d. 2-Brom-1,1,3-Trioxindien. Sm. 60—61° (B. 35, 2939 C. 1902 [2] 1049).
- $C_{13}H_{15}O_3Br_3$  1) 5-Isobutyryl d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol-2-Brommethyläther. Sm. 88° (B. 35, 439 C. 1902 [1] 641).
- $C_{13}H_{15}O_4N$  16) 2-Acetylphenylmonamid d. Malonsäuremonoäthylester. Sm. 55° (Ar. 240, 141 C. 1902 [1] 818).

- $C_{18}H_{18}O_4N_3$  3) Acetylnitrocystisin. Sm. 223—225° (B. 34, 614).  
 $C_{13}H_{15}O_4Br$  4) Diäthylester d. Phenylbrommalonsäure. Sd. 192°<sub>20</sub> (C. 1902 [2] 578).  
 $C_{13}H_{15}O_5N$  \*12) 1-Aethylester d. Benzol-1-Carbonsäure-2-Acetylamidoessigsäure. Sm. 130—132° (B. 35, 1686 C. 1902 [1] 1362).  
 \*13) 2-Aethylester d. Benzol-1-Carbonsäure-2-Acetylamidoessigsäure. Sm. 86—87° (B. 35, 1686 C. 1902 [1] 1362).  
 14) 2-Acetat d. 2-Diacetylamido-1,3-Dioxybenzol-1-Methyläther. Sm. 92° (B. 35, 1480 C. 1902 [1] 1209).  
 15) Dimethylester d. Benzol-1-Carbonsäure-2-Acetylamidoessigsäure. Sm. 81—82° (83°); Sd. 205—212°<sub>30</sub> (C. 1901 [1] 347; B. 35, 1685 C. 1902 [1] 1362). — \*II, 785.  
 $C_{13}H_{15}O_5N_3$  16)  $\alpha$ -Phenylamid d. Butan- $\alpha\alpha\delta$ -Tricarbonsäure. Sm. 177° (A. 317, 62).  
 7) Benzoylamidoacetylamidoacetylamidoessigsäure. Sm. 215—216° (B. 35, 3227 C. 1902 [2] 1043).  
 $C_{13}H_{15}O_6N$  4) Dimethylester d.  $\beta$ -[2-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 41° (B. 35, 2075 C. 1902 [2] 205).  
 5) Dimethylester d.  $\beta$ -[4-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 65° (62°) (B. 35, 2074 C. 1902 [2] 205; Am. 28, 58 C. 1902 [2] 703).  
 6) Trimethylester d. Phenylamidoessigsäure-2,N-Dicarbonsäure. Sd. 210—215°<sub>10</sub> (D. R. P. 127 648 C. 1902 [1] 337).  
 7) 1-Isoamylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 93,5° (B. 34, 487; B. 35, 1603 C. 1902 [1] 1271).  
 8) 2-Isoamylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 165—166° (161—162°) (Soc. 79, 1137; B. 35, 1604 C. 1902 [1] 1271).  
 9) 1-d- $\beta$ -Methylbutylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 113,5—114,5° (B. 34, 489).  
 10) 2-d- $\beta$ -Methylbutylester d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 157—158,5° (154—155°) (Soc. 79, 1138; B. 35, 1604 C. 1902 [1] 1271).  
 $C_{13}H_{15}O_6N_3$  2) P-Trinitro-P-Butyl-2,3-Dihydroinden. Sm. 140° (D. R. P. 80 158). — \*II, 89.  
 3) 4-Semicarbazon-3-Oxy-7-Methoxy-2,3-Dihydro-1,4-Benzpyran-3-Methylcarbonsäure (Semicarbazon d. Brasilsäure). Zers. bei 125 bis 126° (Soc. 81, 228 C. 1902 [1] 816).  
 $C_{13}H_{15}O_7N$  \*2) Monoamid d. 2,4-Dioxybenzol-1,3,5-Tricarbonsäurediäthylester. Sm. 218—219° (G. 31 [1] 164).  
 $C_{13}H_{15}NS_2$  1) 2-Thiocarbonyl-3-Isobutyl-4-Phenyl-2,3-Dihydrothiazol. Sm. 83° (B. 35, 3385 C. 1902 [2] 1363).  
 $C_{13}H_{16}ON_2$  \*5) 1-Benzoyl-3,5,5-Trimethyl-4,5-Dihidropyrazol. Sm. 236° (M. 22, 763).  
 14) 3-Keto-1,5-Dimethyl-4-Aethyl-2-Phenyl-2,3-Dihidropyrazol (4-Aethylantipyrin). Sm. 68° (B. 34, 1307).  
 15) 5-Keto-4-Methyl-3-Propyl-1-Phenyl-4,5-Dihidropyrazol. Sm. 78°; Sd. 200°<sub>14</sub> (C. r. 133, 166).  
 16) 4-Keto-2-Isoamyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 184°. HCl, (2HCl, PtCl<sub>2</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, Pikrat, Oxalat (C. 1901 [2] 891).  
 17) 4-Keto-3-Methyl-2-Isobutyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 68 bis 69° (C. 1901 [2] 891).  
 18) Amid d.  $\alpha$ -Cyan- $\beta$ -[4-Isopropylphenyl]propionsäure. Sm. 144 bis 145° (C. 1902 [2] 700).  
 $C_{13}H_{16}ON_4$  \*1) 2-Phenylhydrazido-4-Keto-6-Methyl-5-Aethyl-3,4-Dihydro-1,3-Diazin. Sm. 235° (G. 31 [1] 519).  
 $C_{13}H_{16}O_2N_2$  \*16) 2,5-Diketo-4-Isobutyl-1-Phenyltetrahydroimidazol. Sm. 125° (H. 33, 187).  
 19)  $\gamma$ -[4-Dimethylamidophenyl]imido- $\beta\delta$ -Diketopentane. Sm. 73° (B. 34, 3051).  
 20) 2,4-Diketo-3-Propyl-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 71—72° (J. pr. [2] 66, 241 C. 1902 [2] 1123).  
 21) 2,4-Diketo-3-Propyl-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 87—88° (J. pr. [2] 66, 244 C. 1902 [2] 1123).  
 22) 2,4-Diketo-3-Propyl-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 124—125° (J. pr. [2] 66, 238 C. 1902 [2] 1122).  
 23) Phenylhydrazon d. Säure C<sub>7</sub>H<sub>10</sub>O<sub>3</sub>. Sm. 159° (R. 21, 247 C. 1902 [2] 507).  
 $C_{13}H_{16}O_3N_2$  14) Acetat d. Oxyecytisin. Sm. 117° (B. 34, 608).



- $C_{13}H_{16}O_5N_2$  15) Äthyläther d. 2,4-Diketo-3-Äthyl-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 131° (*J. pr.* [2] 66, 246 *C.* 1902 [2] 1123).
- $C_{13}H_{16}O_4N_2$  8) *p*-Dinitro-*p*-Butyl-2,3-Dihydroinden. Sm. 121° (*D.R.P.* 80158). — \*II, 89.
- 9)  $\alpha$ - $\delta$ -Dioximido- $\alpha$ -Phenylhexan- $\zeta$ -Carbonsäure. Sm. 144° (*B.* 34, 1265).
- 10) Piperidid d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 125° (*M.* 22, 948 *C.* 1902 [1] 194).
- $C_{13}H_{16}O_4Br_2$  3) Methylster d. Oxyessig-2-Methoxyl-4-[ $\beta$ -Dibrompropyl]phenyläthersäure. Sm. 70° (*M.* 22, 136).
- $C_{13}H_{16}O_5N_2$  \*6) Diäthylester d. Phenyl oxydiazomalonsäure. Fl.  $NH_3$ , Na, K (*Am.* 28, 315 *C.* 1902 [2] 1319).
- 7) 2-Oxy-4-[ $\alpha$ - $\beta$ - $\delta$ -Tetraoxybutyl]-1-Phenylimidazol (Phenylamidoformiat d. Glykosamin). Sm. 210° (*C.* 1901 [2] 743; *H.* 34, 371 *C.* 1902 [1] 682).
- 8) Methylster d. Säure  $C_{12}H_{14}O_5N_2$ . Sm. 177° (*C.* 1902 [2] 28).
- 9) Diäthylester d. Benzol-1-Carbonsäure-2-Nitrosamidoessigsäure. Fl. (*B.* 35, 1686 *C.* 1902 [1] 1362).
- $C_{13}H_{16}O_5Br_2$  2)  $\alpha$ -Methyläther-3,4-Methylenäther-2,5-Dimethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -(6-Brom-2,3,4,5-Tetraoxyphenyl)propan. Sm. 92° (*C.* 1902 [1] 1163).
- $C_{13}H_{16}O_7N_2$  \*2) Glykose-2,3-Diamidobenzol-1-Carbonsäure. Sm. 243° (*B.* 34, 905).
- $C_{13}H_{16}NCl$  5) Trimethyl-2-Naphtylammoniumchlorid. 2 +  $PtCl_4$  (*Soc.* 77, 822). — \*II, 333.
- $C_{13}H_{16}NJ$  \*2) Trimethyl-2-Naphtylammoniumjodid. Sm. 190° (*Bl.* [3] 27, 886 *C.* 1902 [2] 991).
- $C_{13}H_{16}N_2Cl_2$  1) Chlormethylat d. 5-Chlor-3-Methyl-4-Äthyl-1-Phenylpyrazol. Sm. 162° (*B.* 34, 1307).
- $C_{13}H_{16}N_2J_2$  2) Jodäthylat d. 5-Jod-3,4-Dimethyl-1-Phenylpyrazol. Sm. 222—223° u. Zers. (*B.* 34, 1306).
- $C_{13}H_{17}ON$  \*14) Diäthylamid d.  $\beta$ -Phenylakrylsäure. Sm. 66° (*A.* 320, 90).
- 24) Äthylphenylamid d.  $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sd. 165°<sub>18</sub> (*B.* 34, 2134).
- $C_{13}H_{17}ON_3$  \*2) 4-Dimethylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Salze siehe (*C.* 1901 [1] 400).
- 5)  $\gamma$ -Semicarbazon- $\alpha$ -Phenyl- $\alpha$ -Hexen. Sm. 150° (*B.* 35, 3089 *C.* 1902 [2] 1110).
- 6)  $\gamma$ -Semicarbazon- $\alpha$ -Phenyl- $\delta$ -Methyl- $\alpha$ -Penten. Sm. 166—167° (*C.* 1902 [2] 189).
- 7)  $\gamma$ -Semicarbazon- $\alpha$ -Phenyl- $\beta$ -Äthyl- $\alpha$ -Buten. Sm. 207° (*B.* 35, 3090 *C.* 1902 [2] 1111).
- $C_{13}H_{17}O_2N$  17) 5-Diacetylamido-1,2,4-Trimethylbenzol. Sm. 59,5° (*Soc.* 79, 538).
- 18)  $\epsilon$ -Oximido- $\delta$ -Oxy- $\alpha$ -Phenyl- $\delta$ -Dimethyl- $\alpha$ -Penten. Fl. (*M.* 22, 1121 *C.* 1902 [1] 471).
- 19) Trimethyl-7-Oxy-2-Naphtylammoniumhydroxyd. Chlorid (*D.R.P.* 90310, 97244). — \*II, 526.
- 20) Äthylester d. 1,2,3,4-Tetrahydrochinolin-1-Methylcarbonsäure. Sd. 180—190°<sub>17</sub>. HCl (Sm. 95—97°) (*A.* 318, 110; *B.* 35, 1078 *C.* 1902 [1] 938).
- 21) 2-Methylphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 32°; Sd. 310° u. Zers. (*Bl.* [3] 27, 452 *C.* 1902 [2] 66).
- 22) 3-Methylphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 64°; Sd. 195°<sub>10</sub> (*Bl.* [3] 27, 452 *C.* 1902 [2] 66).
- 23) 4-Methylphenylester d. Hexahydropyridin-1-Carbonsäure. Sm. 85°; Sd. 320° u. Zers. (*Bl.* [3] 27, 453 *C.* 1902 [2] 66).
- $C_{13}H_{17}O_2N_3$  3) Amidoacetylcyttisin. Sm. 242—245° (*B.* 34, 616).
- 4) 1-[4-Nitrobenzyliden]amido-2-Methylhexahydropyridin. Sm. 63° (*B.* 35, 2781 *C.* 1902 [2] 998).
- 5) 3,5-Dicyan-2,6-Diketo-4-Butyl-1,4-Dimethylhexahydropyridin. Sm. 123° (*C.* 1901 [1] 580).
- 6) 3,5-Dicyan-2,6-Diketo-4,4-Dipropylhexahydropyridin. Sm. 220,5° (*C.* 1901 [1] 581).
- 7) Äthylester d. *p*-Phenylazo- $\beta$ -Methylamidocrotonsäure. Sm. 113 bis 114° (*B.* 34, 3604).

- $C_{13}H_{17}O_5N$  \*42) *r*- $\alpha$ -Benzoylamido- $\gamma$ -Methylvaleriansäure. Sm. 138—140° (A. 316, 156).
- 50) Methylanhalonidin. HJ (B. 34, 3014).
- 51) *d*- $\alpha$ -Benzoylamido-norm. Capronsäure  $+ xH_2O$ . Sm. 53° (B. 34, 3766 C. 1902 [1] 30).
- 52) *l*- $\alpha$ -Benzoylamido-norm. Capronsäure  $+ \frac{1}{2}H_2O$ . Sm. 53° (B. 34, 3764 C. 1902 [1] 29).
- 53) 2-Oxy-1-[1-Piperidyl]methylbenzol-3-Carbonsäure (C. 1901 [1] 1394).
- 54)  $\gamma$ -Benzoat d.  $\gamma$ -Oximido- $\beta$ -Oxy- $\beta$ -Methylbutan- $\beta$ -Methyläther. Sm. 74—75° (B. 35, 3724 C. 1902 [2] 1404).
- 55) Phenylmonamid d. Pentan- $\alpha\delta$ -Dicarbonsäure. Sm. 122° (Bl. [3] 25, 443).
- 56) Phenylmonamid d. Pentan- $\alpha\epsilon$ -Dicarbonsäure. Sm. 113—114° (A. 317, 106).
- 57) Phenylmonamid d.  $\beta$ -Methylbutan- $\alpha\gamma$ -Dicarbonsäure. Fl. (G. 26 [2] 276). — \*II, 213.
- 58) Phenylmonamid d.  $\beta$ -Methylbutan- $\alpha\delta$ -Dicarbonsäure (Z. Kr. 29, 679). — \*II, 213.
- 59) isom. Phenylmonamid d.  $\beta$ -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 135° (Soc. 81, 682 C. 1902 [2] 115).
- 60) Phenylmonamid einer isom. Dimethylglutarsäure. Sm. 131° (C. r. 134, 1114 C. 1902 [2] 26).
- 61) Verbindung (aus d. Base  $C_{14}H_{15}O_4N_2$ ). HJ (B. 35, 1750 C. 1902 [2] 68).
- $C_{13}H_{17}O_4N$  \*9) Diäthylester d. Phenylmethancarbonsäureamidoameisensäure. Sm. 55° (B. 34, 373).
- \*10) Diäthylester d. Phenylamidoessigsäure-2-Carbonsäure. Sm. 75° (C. 1901 [1] 1127).
- 20) Dimethylester d.  $\beta$ -[4-Amidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 63° (B. 35, 2075 C. 1902 [2] 206).
- 21) Äthylester d. Acetyl-4-Aethoxyphenylamidoameisensäure. Sm. 95° (D.R.P. 69328). — \*II, 404.
- 22) Propylester d. Propionyl-4-Oxyphenylamidoameisensäure. Sm. 80—82° (D.R.P. 69328). — \*II, 405.
- 23) Isobutylester d. Acetyl-4-Oxyphenylamidoameisensäure. Sm. 91 bis 92° (D.R.P. 69328). — \*II, 404.
- 24) Äthylester-4-Acetyläthylamidophenylester d. Kohlensäure. Sm. 95—96° (D.R.P. 79098). — \*II, 404.
- 25) 4-Aethoxyphenylmonamid d. Propan- $\alpha\beta$ -Dicarbonsäure. Sm. 149 bis 150° (C. 1901 [1] 376; Soc. 81, 790 C. 1902 [2] 108).
- $C_{13}H_{17}O_4N_3$  4) Äthylester d. Phenylureidoacetylamidoessigsäure. Sm. 165—166° (B. 34, 2875).
- 5) Äthylester d.  $\beta$ -Imido- $\beta$ -Acetoxamido- $\alpha$ -Phenyläthylamidoameisensäure. Sm. 162° (165° cor.) (B. 34, 376). — \*II, 821.
- $C_{13}H_{17}O_4N_5$  1) Hydrazid d. Benzoylamidoacetylamidoacetylamidoessigsäure. Sm. 245—250° (B. 35, 3227 C. 1902 [2] 1043).
- $C_{13}H_{17}O_6N$  5) Triäthylester d.  $\gamma$ -Cyanpropen- $\alpha\alpha\gamma$ -Tricarbonsäure (Tr. d. Cyan-carboxylglutakonsäure). Fl. (B. 31, 1243). — \*I, 689.
- 6) Triäthylester d.  $\gamma$ -Cyanpropen- $\alpha\beta\gamma$ -Tricarbonsäure. Fl. (B. 34, 3712 C. 1902 [1] 49).
- $C_{13}H_{18}ON_2$  16)  $\gamma$ -Phenylhydrazon- $\delta$ -Ketoheptan. Sm. 91,5° (G. 32 [1] 422 C. 1902 [2] 262).
- $C_{13}H_{18}O_3N_2$  18) 3-Acetylamido-4-Aethylacetylamido-1-Methylbenzol. Sm. 177° (B. 34, 4208 Ann. C. 1902 [1] 263).
- 19) 3-Phenylhydrazon-1,2-Dioxy-1-Methylhexahydrobenzol. Sm. 143° (B. 35, 1177 C. 1902 [1] 989).
- $C_{13}H_{18}O_3N_4$  3) Äthylester d.  $\beta$ -[Imidoamidomethylphenylhydrazon]buttersäure.  $HNO_3$  (G. 31 [1] 523).
- $C_{13}H_{18}O_3Br_2$  2) Dibromsantalensäure. Sm. 114—115° (Soc. 79, 137).
- $C_{13}H_{18}O_3N_2$  \*3)  $\beta$ -Amid d.  $\beta$ -Phenylamidopropan- $\alpha\beta$ -Dicarbonsäure- $\alpha$ -Äthylester. Sm. 109° (B. 35, 2078 C. 1902 [2] 206).
- 11) *i*-Monobenzoyl- $\alpha$ -Diamidocapronsäure. Sm. 235° (249°) (B. 35, 3776 C. 1902 [2] 1414).

- $C_{13}H_{18}O_3N_2$  12) Aethylester d. 2,4-Dimethylphenylamidoacetylamidoameisensäure. Sm. 123—124° (*J. pr.* [2] 66, 257 *C.* 1902 [2] 1125).
- $C_{13}H_{18}O_4N_2$  \*2) Diäthylester d. Benzylidendi[amidoameisensäure] (*B.* 34, 370).
- 5) 5-Diäthylamidoacetylamido-2-Oxybenzol-1-Carbonsäure. Zers. bei 250° (*D.R.P.* 108871 *C.* 1900 [2] 303). — \*II, 899.
- $C_{13}H_{18}O_6N_2$  2) Phenylamidoformylglykosamin (*H.* 34, 371 *C.* 1902 [1] 682).
- 3) Verbindung (aus Phenylharnstoff u. Glykose). Sm. 223° (*R.* 19, 400).
- $C_{13}H_{18}NJ$  3) Jodmethylat d. 1-Allyl-1,2,3,4-Tetrahydrochinolin. Zers. bei 143° (*B.* 35, 183 *C.* 1902 [1] 429).
- $C_{13}H_{18}N_2S$  7) 2-Phenylamido-4,6,6-Trimethyl-4,5-Dihydro-1,3-Thiazin. Sm. 131—132° (*M.* 23, 762 *C.* 1902 [2] 1097).
- $C_{13}H_{18}Cl_3J_2$  1)  $\alpha$ - $\beta$ -Dichloräthyl-4-Isoamylphenyljodoniumjodid (*B.* 34, 3687).
- $C_{13}H_{18}Cl_3J$  1)  $\alpha$ - $\beta$ -Dichloräthyl-4-Isoamylphenyljodoniumchlorid. Sm. 132° u. Zers. 2 +  $PtCl_4$  (*B.* 34, 3687).
- $C_{13}H_{19}ON$  27) 4-Isoamylphenylamid d. Essigsäure. Sm. 113—114° (*B.* 34, 3680).
- 28) 4-tert. Amylphenylamid d. Essigsäure. Sm. 138—139° (*B.* 34, 3680).
- 29) 4-Methyl-2,6-Diäthylphenylamid d. Essigsäure. Sm. 167° (*D.R.P.* 67844). — \*II, 320.
- $C_{13}H_{19}ON_3$  3)  $\gamma$ -Oximido- $\delta$ -Phenylhydrazonheptan. Sm. 135° (*G.* 32 [1] 424 *C.* 1902 [2] 262).
- 4)  $\alpha$ -Semicarbazon- $\alpha$ -[2-Methylphenyl]pentan. Sm. 212° (*C. r.* 133, 1218 *C.* 1902 [1] 299).
- $C_{13}H_{19}O_2N$  37) Methyläther d. 5-Acetylamido-2-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 140° (*B.* 28, 1662). — \*II, 460.
- 38) Methyläther d. 6-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 139° (*B.* 28, 1663). — \*II, 465.
- 39) Amyläther d. 4-Acetylamido-1-Oxybenzol. Sm. 97° (*B.* 34, 1942).
- 40) 4-Isobutyläther d.  $\alpha$ -Oximido- $\alpha$ -[4-Oxyphenyl]propan. Sm. 49° (*B.* 35, 2266 *C.* 1902 [2] 276).
- 41)  $\beta$ -Methylbutylester d. 2-Methylphenylamidoameisensäure (*Ph. Ch.* 14, 396). — \*II, 253.
- 42)  $\beta$ -Methylbutylester d. 3-Methylphenylamidoameisensäure (*Ph. Ch.* 14, 396). — \*II, 261.
- 43)  $\beta$ -Methylbutylester d. 4-Methylphenylamidoameisensäure (*Ph. Ch.* 14, 397). — \*II, 271.
- $C_{13}H_{19}O_2As$  1) Anhydrid d. Triäthylphenylarsoniumhydrat-4-Carbonsäure (*A.* 320, 311, 313 *C.* 1902 [1] 921).
- $C_{13}H_{19}O_3Br$  1)  $\alpha$ ,3-Dimethyläther-4-Aethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[3,4-Dioxyphenyl]propan. Sm. 68° (*C.* 1902 [1] 1163).
- $C_{13}H_{19}O_4N$  \*4) Diäthylester d. stab. 2,6-Dimethyl-1,4-Dihydropyridin-3,5-Dicarbonsäure. Sm. 183—185° (*B.* 35, 1791 *C.* 1902 [2] 128).
- $C_{13}H_{19}O_5N$  5)  $\zeta$ -Benzylidenamido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (Benzalgalaktamin). Sm. 195—196° u. Zers. (*C. r.* 135, 692 *C.* 1902 [2] 1356).
- 6)  $\zeta$ -Benzylidenamido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (Benzalglykamin). Sm. 162—163° (*C. r.* 134, 292 *C.* 1902 [1] 565).
- 7) Diäthylester d.  $\alpha$ -Cyan- $\beta$ -Oxypropenpropyläther- $\alpha\gamma$ -Dicarbonsäure. Sm. 20° (*C.* 1901 [1] 883).
- 8) Diäthylester d. 2-Keto-4,6-Dimethyl-1,2,3,4-Tetrahydropyridin-3,5-Dicarbonsäure. Sm. 54—54,5° (*B.* 35, 2179 *C.* 1902 [2] 374).
- $C_{13}H_{19}O_6N$  \*2) Triäthylester d.  $\beta$ -Cyanpropan- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 40—41°; Sd. 206—212°<sub>28</sub> (*Soc.* 81, 32 *C.* 1902 [1] 409).
- $C_{13}H_{19}O_8Br$  1) Triacetat d. Methylglykosidbromhydrin. Sm. 126—127° (*B.* 35, 837 *C.* 1902 [1] 758).
- $C_{13}H_{20}O_2Br_2$  1) 1-Bornylester d.  $\alpha\alpha$ -Dibrompropionsäure. Sd. 190°<sub>20</sub> (*C. r.* 134, 609 *C.* 1902 [1] 872).
- $C_{13}H_{20}O_6N_2$  2) Methylphenylhydrazon d. i-Galaktose. Sm. 183° (*H.* 36, 220 Ann. *C.* 1902 [2] 1099).
- 3) Methylphenylhydrazon d. d-Glykose. Sm. 130° (*B.* 35, 965 *C.* 1902 [1] 861).
- 4)  $\beta$ -Amid d.  $\beta$ -Cyan- $\gamma$ -Oxy- $\epsilon$ -Ketohexanäthyläther- $\beta\delta$ -Dicarbonsäure- $\delta$ -Aethylester. Sm. 202—203° (*B.* 34, 3694 *C.* 1902 [1] 47).
- $C_{13}H_{20}O_6N_2$  8)  $\alpha$ -[ $\beta\gamma\delta\epsilon\zeta$ -Pentaoxyhexyl]- $\beta$ -Phenylharnstoff (Galaktaminphenylharnstoff). Sm. 219° (*C. r.* 135, 693 *C.* 1902 [2] 1356).

- $C_{13}H_{20}O_6N_2$  9)  $\alpha$ - $[\beta\gamma\delta\epsilon\zeta$ -Pentaoxyhexyl]- $\beta$ -Phenylharnstoff (Glykaminphenylharnstoff). Sm.  $174^\circ$  (C. r. 134, 293 C. 1902 [1] 565).
- $C_{13}H_{21}ON$  12) Verbindung (aus Acetonylisocampher). Sm.  $151^\circ$  (B. 34, 3060).
- $C_{13}H_{21}O_2N$  6) 1-Menthylester d. Cyanessigsäure (C. 1902 [2] 1238).
- $C_{13}H_{21}O_2Br$  1) 1-Bornylester d.  $\alpha$ -Brompropionsäure. Sd.  $271$ — $273^\circ$  (C. r. 134, 609 C. 1902 [1] 872).
- $C_{13}H_{21}O_3As$  1) Triäthylphenylarsoniumhydrat-4-Carbonsäure. Salze siehe (A. 320, 312 C. 1902 [1] 921).
- $C_{13}H_{21}O_4N_3$  C 55,1 — H 7,4 — O 22,6 — N 14,8 — M. G. 283.
- 1) Aethylester d. 3- oder 5-Keto-5- oder 3-Semicarbazon-1,1,2-Trimethylhexahydrobenzol-2-Carbonsäure. Sm.  $206^\circ$  u. Zers. (Soc. 79, 142).
- $C_{13}H_{21}O_6N_3$  C 49,5 — H 6,7 — O 30,5 — N 13,3 — M. G. 315.
- 1) Semicarbazon d. trim.  $\beta\gamma$ -Diketobutan. Sm.  $238^\circ$  (B. 35, 3297 C. 1902 [2] 1247).
- $C_{13}H_{22}O_6N_2$  C 54,5 — H 7,7 — O 28,0 — N 9,8 — M. G. 286.
- 1) Diäthylester d. 1-Nitroso-2,6-Dimethylhexahydropyridin-3,5-Dicarbonsäure. Sm.  $54^\circ$  (G. 25 [2] 82; B. 35, 1795 C. 1902 [2] 128). — IV, 94.
- $C_{13}H_{22}O_7N_4$  C 45,1 — H 6,3 — O 32,4 — N 16,2 — M. G. 346.
- 1) Diäthylester d. Carbonyldi[Amidoacetylamidoessigsäure] (Carbonyldiglycylglycinester). Sm.  $233^\circ$  u. Zers. (B. 35, 1101 C. 1902 [1] 910).
- $C_{13}H_{22}ClAs$  1) Triäthyl-4-Methylphenylarsoniumchlorid.  $2 + PtCl_4$  (A. 320, 305 C. 1902 [1] 921).
- $C_{13}H_{22}JAs$  1) Triäthyl-4-Methylphenylarsoniumjodid. Sm.  $230^\circ$  (A. 320, 305 C. 1902 [1] 921).
- $C_{13}H_{23}ON$  5) 3-Keto-2-Aethylamidomethylen-4-Isopropyl-1-Methylhexahydrobenzol (Aethylamidomethylenmenthon) (C. 1901 [1] 1025).
- 6) 3-Keto-2-Dimethylamidomethylen-4-Isopropyl-1-Methylhexahydrobenzol (Dimethylamidomethylenmenthon) (C. 1901 [1] 1025).
- $C_{13}H_{23}O_2Br$  1) 1-Menthylester d.  $\alpha$ -Brompropionsäure (C. 1902 [2] 1238).
- $C_{13}H_{23}O_4N$  4) Diäthylester d. 2,6-Dimethylhexahydropyridin-3,5-Dicarbonsäure. Sm.  $88^\circ$  (G. 25 [2] 83; B. 35, 1797 C. 1902 [2] 128). — IV, 94.
- $C_{13}H_{23}O_4N_5$  C 49,9 — H 7,3 — O 20,4 — N 22,4 — M. G. 313.
- 1) Tetra[Methylamid] d. 1-Methyltetrahydropyrrol-2,2,5,5-Tetracarbonsäure. Sm.  $230$ — $230,5^\circ$  (B. 35, 2071 C. 1902 [2] 218).
- $C_{13}H_{26}O_2N_2$  \* 4) Amid  $\alpha$ -Undekan- $\alpha\lambda$ -Dicarbonsäure. Sm.  $155$ — $156^\circ$  (B. 34, 899).
- $C_{13}H_{26}O_5S_2$  1)  $\beta\zeta$ -Di[Aethylsulfon]- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Sm.  $101^\circ$  (B. 34, 1399; B. 35, 814 C. 1902 [1] 757).
- $C_{13}H_{26}NJ$  2) Trimethylthujylammoniumjodid (B. 34, 2278).
- $C_{13}H_{27}ON$  6) 3-Oxy-2-Aethylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd.  $165$ — $166^\circ_{10}$  (C. 1901 [1] 1025).
- 7) 3-Oxy-2-Dimethylamidomethyl-4-Isopropyl-1-Methylhexahydrobenzol. Sd.  $140^\circ_{14}$  (C. 1901 [1] 1025).
- $C_{13}H_{27}O_2N$  4) Betain d.  $\varepsilon$ -Trimethylamido- $\beta\zeta$ -Dimethylheptan- $\alpha$ -Carbonsäure. Chlorid (C. 1902 [1] 1295).
- 5) Betain d.  $\varepsilon$ -Trimethylamido- $\beta$ -Isopropylhexan- $\alpha$ -Carbonsäure (C. 1902 [1] 1295).
- 13 IV —
- $C_{13}H_4ON_2Cl_3$  1)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[2,4,6-Trichlorphenyl]harnstoff (B. 34, 1078).
- $C_{13}H_6ON_2Cl_6$  1) s-Di[2,4,6-Trichlorphenyl]harnstoff. Sm.  $320$ — $325^\circ$  u. Zers. (B. 34, 1077).
- 2)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[2,4-Dichlorphenyl]harnstoff. Sm.  $160^\circ$  u. Zers. (B. 34, 1077).
- $C_{13}H_6ON_2Br_6$  1) s-Di[2,4,6-Tribromphenyl]harnstoff. Sm.  $230^\circ$  u. Zers. (B. 34, 1081).
- $C_{13}H_6O_5N_2Cl_2$  1) 4,4'-Dichlor-3,3'-Dinitrodiphenylketon. Sm.  $132,5^\circ$  (R. 21, 26 C. 1902 [1] 1013).
- $C_{13}H_7ON_2Cl$  1) 9-Keto-2-Diazofluorencchlorid (B. 34, 1766).
- $C_{13}H_7O_3NCl_2$  1) 4,4'-Dichlor-3-Nitrodiphenylketon. Sm.  $87^\circ$  (R. 21, 25 C. 1902 [1] 1013).

- $C_{13}H_7O_3NBr_2$  3) Benzoat d. 2,6-Dibrom-4-Nitroso-1-Oxybenzol. Sm. 197° (Soc. 79, 688).
- $C_{13}H_8ONBr_5$  1) ?-Pentabrom-3'-Oxy-4-Methyldiphenylamin. Sm. 203—204° (J. pr. [2] 65, 80 C. 1902 [1] 580).
- $C_{13}H_8ON_2Cl_4$  1) s-Di[2,4-Dichlorphenyl]harnstoff. Sm. 273° u. Zers. (B. 34, 1076).
- 2)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[4-Chlorphenyl]harnstoff. Sm. 171—173° u. Zers. (B. 34, 1076).
- 3) 2,4,5,6-Tetrachlor-3-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 124—125° (B. 34, 4123 C. 1902 [1] 190).
- $C_{13}H_8ON_2Br_4$  2) s-Di[2,4-Dibromphenyl]harnstoff. Sm. 281° u. Zers. (B. 34, 1080).
- $C_{13}H_8OCl_2Hg_2$  1) Diphenylketondi[Quecksilberchlorid] (B. 35, 2869 C. 1902 [2] 1040).
- $C_{13}H_8O_2NCl$  1) Chlorid d. 3-Benzoylpyridin-2-Carbonsäure. Sm. 137° (M. 22, 116).
- 2) Chlorid d. 4-Benzoylpyridin-3-Carbonsäure (M. 22, 117).
- $C_{13}H_8O_2N_4Cl_2$  1) 5,8-Dichlor-2-[4-Nitrophenyl]-1,2-Dihydro-1,2,3-Benzotriazin? Sm. 234—235° (B. 34, 1326).
- $C_{13}H_8O_2N_6Cl_2$  1) 3,6-Dichlor-2-[4-Nitrophenylhydrazon]methyldiazobenzolimid. Sm. 233—234° u. Zers. (B. 34, 1325).
- $C_{13}H_8O_2ClBr$  1) 5-Chlor-1-Brom-3,6-Dioxy-pentanthren. Sm. 168—170° u. Zers. (B. 34, 1557).
- 2) 1-Chlor-5-Brom-3,6-Dioxy-pentanthren. Sm. 173—174° u. Zers. (B. 34, 1547).
- $C_{13}H_8O_2Cl_2Hg_2$  \* 1) Benzoat d. 4-Oxy-1,3-Phenylendiquecksilberchlorid (C. 1901 [1] 452).
- $C_{13}H_8O_2BrJ$  1) 5-Brom-1-Jod-3,6-Dioxy-pentanthren. Sm. 119° u. Zers. (B. 34, 1547).
- $C_{13}H_8O_5N_2S$  2) Phenylimid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 183° (Am. 25, 21). — \* II, 806.
- $C_{13}H_8O_5N_4S$  1) 2,4-Dinitro-5-Rhodan-2'-Oxydiphenylamin. Sm. 255° (C. 1901 [2] 381).
- 2) 2,4-Dinitro-5-Rhodan-4'-Oxydiphenylamin. Sm. 227—228° (C. 1901 [2] 381).
- $C_{13}H_8O_8N_2S$  1) 2,6-Dinitrodiphenylsulfon-4-Carbonsäure. Sm. 240° u. Zers. (B. 34, 1155).
- $C_{13}H_8ONCl_2$  6) 4,4'-Diamido-3-Amidodiphenylketon. Sm. 140,5°; Sd. 280°<sub>11</sub> (R. 21, 27 C. 1902 [1] 1013).
- 7) 2-Chlorphenylchloramid d. Benzolcarbonsäure. Sm. 94° (Soc. 81, 984 C. 1902 [2] 360).
- $C_{13}H_9ONBr_2$  10) 2-Bromphenylbromamid d. Benzolcarbonsäure. Sm. 99° (Soc. 81, 986 C. 1902 [2] 360).
- $C_{13}H_9ON_2Cl_3$  1)  $\alpha$ -Chlor- $\alpha\beta$ -Di[Chlorphenyl]harnstoff. Sm. 132° (B. 34, 1076).
- 2) 2,4,6-Trichlor-3-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 59 bis 60° (A. 321, 34 C. 1902 [1] 929).
- $C_{13}H_9ON_2Br_3$  1) 2,4,6-Tribrom-3-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 129° (A. 321, 35 C. 1902 [1] 928).
- $C_{13}H_9OClHg$  1) Diphenylketon-2-Quecksilberchlorid. Sm. 167—168° (B. 35, 2868 C. 1902 [2] 1040).
- $C_{13}H_9OClP$  1) Dichlorid d. 4-[ $\alpha$ -Dichlorbenzyl]phenylphosphinsäure. Sm. 64°; Sd. 258°<sub>15</sub> (A. 315, 49).
- $C_{13}H_9OBrHg$  1) Diphenylketon-2-Quecksilberbromid. Sm. 176° (B. 35, 2868 C. 1902 [2] 1040).
- $C_{13}H_9O_2NBr_3$  1) Benzoylderivat d. 2,6-Dibrom-4-Amido-1-Oxybenzol. Sm. 208° (Soc. 79, 690).
- $C_{13}H_9O_2N_2Cl$  \* 2)  $\alpha$ -Chlor- $\alpha$ -[3-Nitrophenyl]imido- $\alpha$ -Phenylmethan. Sm. 80—82° (B. 34, 2629).
- 5) 4-Chlor-1-[3-Nitrobenzyliden]amidobenzol. Sm. 81°. HCl (B. 34, 832).
- 6) 4-Chlor-1-[4-Nitrobenzyliden]amidobenzol. Sm. 128°. HCl (B. 34, 832).
- $C_{13}H_9O_2Cl_2Br_5$  1) Verbindung (aus 2,4-Dichloracetyl-1,3,5-Trimethylbenzol). Sm. 162 bis 163° (B. 34, 1828).



- $C_{13}H_9O_3N_2Cl$  9) 2-Chlor-4-Nitrophenylamid d. Benzolcarbonsäure. Sm. 161° (C. 1902 [1] 752).
- $C_{13}H_9O_3ClS$  3) Chlorid d. Diphenylsulfon-2-Carbonsäure. Sm. 262,5—263,5° (Am. 25, 104). — \*II, 901.
- $C_{13}H_9O_3NS$  4) 2-Nitrodiphenylsulfon-4-Carbonsäure. Sm. 255—260° (B. 34, 1155).
- $C_{13}H_{10}ONCl$  \*8) Phenylchloramid d. Benzolcarbonsäure (Soc. 79, 279).
- $C_{13}H_{10}ONBr$  14) 2-Brom-1-[2-Oxybenzyliden]amidobenzol. Sm. 85—86° (B. 34, 833 Anm.).
- 15) 4-Brom-1-[2-Oxybenzyliden]amidobenzol. Sm. 112°. HCl (B. 34, 832).
- 16) 2-Bromphenylamid d. Benzolcarbonsäure. Sm. 116° (Soc. 81, 986 C. 1902 [2] 360).
- $C_{13}H_{10}ON_2Cl_2$  \*2) s-Di[3-Chlorphenyl]harnstoff (J. pr. [2] 64, 332).
- \*3) s-Di[4-Chlorphenyl]harnstoff. Sm. 310° u. Zers. (B. 34, 1075; B. 35, 1878 C. 1902 [2] 33).
- 5)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Diphenylharnstoff. Sm. 101—102° u. Zers. (B. 34, 1075).
- 6)  $\alpha$ -[4-Chlorphenyl]imido- $\alpha$ -[4-Chlorphenyl]hydroxylamido-methan. Cu (B. 35, 1878 C. 1902 [2] 33).
- $C_{13}H_{10}ON_2Br_2$  \*3) s-Di[4-Bromphenyl]harnstoff. Sm. 330° u. Zers. (B. 34, 1080).
- 6) 3,5-Dibrom-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 153 bis 154° (A. 321, 6 C. 1902 [1] 927).
- 7) p-Dibrom-4'-Oxy-2-Methylazobenzol. Sm. 121° (Soc. 79, 1090).
- 8) p-Dibrom-4'-Oxy-3-Methylazobenzol. Sm. 129° (Soc. 79, 1091).
- 9) p-Dibrom-4'-Oxy-4-Methylazobenzol. Sm. 137° (Soc. 79, 1092).
- $C_{13}H_{10}ON_2J_2$  4) 3,5-Diod-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 157° (A. 321, 16 C. 1902 [1] 927).
- $C_{13}H_{10}ON_4Br_2$  1) Dibromid d. Diphenylcarbodiäzin. Zers. bei 60° (Bl. [3] 25, 378).
- $C_{13}H_{10}O_2NBr$  4) 5-Brom-6-Oximido-3-Oxy-1,6-Dihydropentanthren (B. 34, 1549).
- $C_{13}H_{10}O_2N_2Br_2$  \*1)  $\alpha\beta$ -Dibrom- $\alpha$ -[3-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthan. Sm. 153° (B. 34, 466; Ar. 240, 253 C. 1902 [2] 130).
- 3)  $\alpha\beta$ -Dibrom- $\alpha$ -[2-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthan. Sm. 167 bis 168° (B. 34, 465; Ar. 240, 256 C. 1902 [2] 130).
- 4)  $\alpha\beta$ -Dibrom- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2-Pyridyl]äthan. Sm. 173° (B. 34, 466; Ar. 240, 251 C. 1902 [2] 130).
- $C_{13}H_{10}O_2N_4Cl_2$  1) 3,6-Dichlor-2-Amido-1-[4-Nitrophenylhydrazon]methylbenzol. Sm. 295° (B. 34, 1322 Anm.).
- $C_{13}H_{10}O_4NCl$  4) Monoäthyläther d. Pyridylchlordioxy-1,4-Benzochinon (C. r. 133, 235).
- $C_{13}H_{10}O_4N_2S$  4) 7-Oxy-2-Methyl-5,10-Naphtdiazin-p-Sulfonsäure. Ba (J. pr. [2] 65, 74 C. 1902 [1] 580).
- $C_{13}H_{10}O_6N_2S$  4) 1-Phenylamid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Ba +  $9\frac{1}{2}H_2O$  (Am. 25, 21). — \*II, 806.
- $C_{13}H_{10}O_7N_2S$  1) 4-Nitrophenylester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 115° (113—114°) (D.R.P. 91314; B. 34, 2997). — \*II, 380.
- 2) 4-Nitrophenylester d. 4-Nitro-1-Methylbenzol-2-Sulfonsäure. Sm. 195° (D.R.P. 91314). — \*II, 380.
- $C_{13}H_{10}O_7N_4S$  1)  $\alpha$ -Phenyl- $\beta$ -[2,4-Dinitrobenzyliden]hydrazin- $\alpha'$ -Sulfonsäure. Sm. 217° u. Zers. (B. 35, 1231 C. 1902 [1] 1000; B. 35, 2711 C. 1902 [2] 637).
- $C_{13}H_{10}O_8N_2S$  1) 4'-Nitro-4-Oxydiphenylamin-3-Carbonsäure-2'-Sulfonsäure. Zers. oberh. 260° (D.R.P. 109150 C. 1900 [1] 1215). — \*II, 898.
- $C_{13}H_{10}O_8N_4S$  1) 2,4-Dinitrophenylamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 214° (B. 34, 3001).
- $C_{13}H_{11}ON_2Br$  9) 3-Brom-4-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 105° (A. 321, 21 C. 1902 [1] 927).
- 10) 4-Bromphenyl-2-Oxybenzylidenhydrazin. Sm. 175,5° (A. 324, 315 C. 1902 [2] 1505).
- 11) 5-Brom-6-Oxy-3-Methylazobenzol. Sm. 123° (Soc. 79, 164).
- 12) 2'-Brom-6-Oxy-3-Methylazobenzol. Sm. 116° (Soc. 79, 165).
- 13) 3'-Brom-6-Oxy-3-Methylazobenzol. Sm. 112° (Soc. 79, 166).
- 14) 4'-Brom-6-Oxy-3-Methylazobenzol. Sm. 147° (Soc. 79, 166).
- 15) Phenylhydrazid d. 3-Brombenzol-1-Carbonsäure. Sm. 152° (B. 34, 185).

- $C_{13}H_{11}OCl_2P$  1) Dichlorid d. 4-Benzylphenylphosphinsäure. *Sd.* 261°<sub>20</sub> (*A.* 315, 44).
- $C_{13}H_{11}O_2N_2Cl$  \*1) 5'-Chlor-2-Nitro-4-Methyldiphenylamin. *Sm.* 126° (*B.* 34, 1102).
- $C_{13}H_{11}O_3NS$  \*3) Benzoylamid d. Benzolsulfonsäure. *Na.* (*B.* 34, 3160).
- 5) Amid d. Diphenylsulfon-2-Carbonsäure. *Sm.* 220—257°? (*Am.* 25, 105). — \*II, 901.
- $C_{13}H_{11}O_4NS$  10) 2-Amidodiphenylsulfon-4-Carbonsäure. *Sm.* 270—275° (*B.* 34, 1156).
- $C_{13}H_{11}O_5NS$  5) Phenylester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. *Sm.* 59 bis 60° (*B.* 35, 1443 *C.* 1902 [1] 1201).
- 6) 2-Nitrophenylester d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 81,5° (*B.* 34, 241).
- 7) 4-Nitrophenylester d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 97 bis 97,5° (98°) (*B.* 34, 240, 2996).
- $C_{13}H_{11}O_5N_2S$  6) 4-Amidophenyl-4'-Nitrobenzylidenamin-2'-Sulfonsäure. *Na.* (*D.R.P.* 135335 *C.* 1902 [2] 1167).
- $C_{13}H_{11}O_6NS$  3) 2'-Nitro-2-Methyldiphenyläther- $\beta$ -Sulfonsäure. *Fl. Ba, Sr* + 2H<sub>2</sub>O, *Pb* (*C.* 1902 [1] 36).
- 4) 2'-Nitro-3-Methyldiphenyläther- $\beta$ -Sulfonsäure. *Ba* + 2H<sub>2</sub>O (*C.* 1902 [1] 36).
- 5) 2'-Nitro-4-Methyldiphenyläther- $\beta$ -Sulfonsäure. *Ba* + 5H<sub>2</sub>O (*C.* 1902 [1] 36).
- $C_{13}H_{11}O_6N_2P$  1)  $\beta$ -Nitrophenyl- $\beta$ -Nitro-4-Methylphenylphosphinsäure. *Sm.* 205° *Ag* (*A.* 315, 60).
- $C_{13}H_{11}O_6N_3S$  3) 2,4-Dinitrophenylamid d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 219° (*B.* 34, 3000).
- $C_{13}H_{11}O_7N_3S$  2) Phenyl-2,4-Dinitrobenzylamin-4'-Sulfonsäure (*B.* 35, 1266 *C.* 1902 [1] 1102; *M.* 23, 549 *C.* 1902 [2] 742).
- $C_{13}H_{12}ONCl$  3)  $\alpha$ -Oxy- $\alpha$ -(4-Chlorphenyl)amido- $\alpha$ -Phenylmethan. *Sm.* oberh. 100° (*B.* 34, 830).
- $C_{13}H_{12}O_2N_2S$  1) Methylester d.  $\alpha$ -[1-Naphtyl]thioharnstoff- $\beta$ -Carbonsäure. *Sm.* 193° (*Soc.* 79, 909).
- 11) Methylester d.  $\alpha$ -[2-Naphtyl]thioharnstoff- $\beta$ -Carbonsäure. *Sm.* 184° (*Soc.* 79, 909).
- $C_{13}H_{12}O_3NJ$  1) Acetat d. Verbindung  $C_{11}H_{10}O_2NJ$  + H<sub>2</sub>O. *Sm.* 165—168° (*G.* 31 [2] 263).
- 2) Acetylderivat d. Verbind.  $C_{11}H_{10}O_3NJ$ . *Sm.* 205—207° (*G.* 32 [1] 452 *C.* 1902 [1] 270).
- $C_{13}H_{12}O_3N_2S$  10) Diacetylderivat d. 2-Phenylimido-4-Ketotetrahydrothiazol. *Sm.* 161—162° (*Am.* 28, 146 *C.* 1902 [2] 793).
- $C_{13}H_{12}O_4NBr$  1)  $\alpha$ -Brom- $\delta$ -[1,2-Phtalylimido]valeriansäure. *Sm.* 127—128° (*B.* 34, 461).
- $C_{13}H_{12}O_4N_2S$  10) Phenylamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. *Sm.* 109° (*B.* 34, 3000).
- 11) 3-Nitro-4-Methylphenylamid d. Benzolsulfonsäure. *Sm.* 160° (*D.R.P.* 135016 *C.* 1902 [2] 1166).
- $C_{13}H_{12}O_5N_2S$  5) 3'-Oxy-4-Methyldiphenylnitrosamin- $\beta$ -Sulfonsäure (*J. pr.* [2] 65, 73 *C.* 1902 [1] 579).
- $C_{13}H_{13}O_2NS$  \*10) Benzylamid d. Benzolsulfonsäure. *Sm.* 85° (*B.* 34, 3162).
- 12) 4'-Amido-4-Methyldiphenylsulfon. *Sm.* 181,5° (*B.* 34, 251).
- $C_{13}H_{13}O_2N_2Br_3$  1) 2,4-Diketo-3- $[\beta\gamma$ -Dibrompropyl]-1-[ $\beta$ -Brom-3-Methylphenyl]-tetrahydroimidazol. *Sm.* 117° (*J. pr.* [2] 66, 253 *C.* 1902 [2] 1125).
- $C_{13}H_{13}O_2Cl_2Br$  1) 6-Brom-2,4-Di[Chloracetyl]-1,3,5-Trimethylbenzol. *Sm.* 113° (*B.* 34, 1829).
- $C_{13}H_{13}O_3NS$  \*6) Phenylloxamid d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 143 bis 143,5° (*B.* 34, 238, 253).
- 13) 2-Amidophenylester d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 101 bis 101,5° (*B.* 34, 241).
- 14) 4-Amidophenylester d. 1-Methylbenzol-4-Sulfonsäure. *Sm.* 142,5° *p*-Tolylsulfonat (*B.* 34, 236, 252).
- 15) 4-Oxyphenylamid d. 1-Methylbenzol-2-Sulfonsäure. *Sm.* 144° (*D.R.P.* 128815 *C.* 1902 [1] 551).
- 16) Benzylhydroxylamid d. Benzolsulfonsäure +  $\frac{1}{2}$  C<sub>6</sub>H<sub>6</sub>. (*Sm.* 92 bis 93°) (*B.* 29, 1566). — \*II, 305.

- $C_{13}H_{15}O_4NS$  2) 3'-Oxy-4-Methyldiphenylamin- $\beta$ -Sulfonsäure. Na, K, Ba (*J. pr.* [2] 65, 56 *C.* 1902 [1] 578).
- 3) d- $\alpha$ -[2-Naphtylsulfon]amidopropionsäure + xH<sub>2</sub>O. Sm. 79–81° (122–123° wasserfrei) (*B.* 35, 3781 *C.* 1902 [2] 1469).
- 4) r- $\alpha$ -[2-Naphtylsulfon]amidopropionsäure. Sm. 152–153° (*B.* 35, 3781 *C.* 1902 [2] 1469).
- $C_{13}H_{13}O_4NS_2$  2) Imid d. Benzolsulfonsäure u. 1-Methylbenzol-4-Sulfonsäure (*C.* 1901 [2] 1185).
- $C_{13}H_{13}O_4N_2S$  1) Phenylhydrazid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 157–158° u. Zers. (*B.* 34, 3002).
- $C_{13}H_{13}O_6NS$  1)  $\alpha$ -[2-Naphtylsulfon]amido- $\beta$ -Oxypropionsäure. Sm. 214° (*B.* 35, 3784 *C.* 1902 [2] 1470).
- $C_{13}H_{13}O_6N_2S$  1)  $\alpha$ -[4-Nitro- $\alpha$ -Oxybenzyl]- $\beta$ -[4-Sulfophenyl]hydrazin. Zers. bei 80–90°. Na (*B.* 35, 2007 *C.* 1902 [2] 196).
- $C_{13}H_{13}O_7NS_2$  1) 3'-Oxy-4-Methyldiphenylamin- $\beta$ -Disulfonsäure. Na<sub>2</sub>, K<sub>2</sub>, Ba + H<sub>2</sub>O (*J. pr.* [2] 65, 60 *C.* 1902 [1] 578).
- $C_{13}H_{13}O_{10}NS_3$  1) 3'-Oxy-4-Methyldiphenylamin- $\beta$ -Trisulfonsäure. Ba<sub>3</sub> (*J. pr.* [2] 65, 61 *C.* 1902 [1] 578).
- $C_{13}H_{14}O_2NCl$  3) Isochinolinbetainäthylesterchlorid. Sm. 183–186°. 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (*Ar.* 240, 506 *C.* 1902 [2] 1326).
- $C_{13}H_{14}O_2NBr$  2) Chinolinbetainäthylesterbromid. Sm. 178° (*Ar.* 240, 517 *C.* 1902 [2] 1326).
- 3) Isochinolinbetainäthylesterbromid. Sm. 199° (*Ar.* 240, 505 *C.* 1902 [2] 1326).
- 4)  $\epsilon$ -Bromamylimid d. Benzol-1,2-Dicarbonsäure. Sm. 61° (*B.* 35, 1368 *C.* 1902 [1] 1091).
- $C_{13}H_{14}O_2NJ$  2) Äthylester d. Chinoliniumjodessigsäure. Sm. 174° (*B.* 35, 3586 *C.* 1902 [2] 1386).
- $C_{13}H_{14}O_2N_2Br_2$  2) 2,4-Diketo-3-[ $\beta$ - $\gamma$ -Dibrompropyl]-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 104–105° (*J. pr.* [2] 66, 251 *C.* 1902 [2] 1124).
- 4) 2,4-Diketo-3-[ $\beta$ - $\gamma$ -Dibrompropyl]-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 77–78° (*J. pr.* [2] 66, 252 *C.* 1902 [2] 1124).
- 5) 2,4-Diketo-3-[ $\beta$ - $\gamma$ -Dibrompropyl]-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 124° (*J. pr.* [2] 66, 251 *C.* 1902 [2] 1124).
- $C_{13}H_{14}O_2N_2S$  6) 3-Amido-4-Methylphenylamid d. Benzolsulfonsäure. Sm. 138° (*D.R.P.* 135016 *C.* 1902 [2] 1166).
- $C_{13}H_{14}O_3NBr$  3) Propylester d. Phenylamidomukobromsäure. Sm. 80° (*B.* 34, 518).
- $C_{13}H_{14}O_3N_2S$  1) Äthyläther d. 2-Acetylimido-4-Keto-3-[4-Oxyphenyl]tetrahydrothiazol. Sm. 155° (*Am.* 28, 157 *C.* 1902 [2] 794).
- 2) 1,8-Isopropylidendiamidonaphtalin-4-Sulfonsäure (*C.* 1901 [2] 448).
- $C_{13}H_{14}O_4N_2S$  2)  $\alpha$ -[ $\alpha$ -Oxybenzyl]- $\beta$ -[4-Sulfophenyl]hydrazin. Zers. bei 95°. Na (*B.* 35, 2004 *C.* 1902 [2] 196).
- $C_{13}H_{14}O_4N_2S_2$  1) Benzoyldithiocarbaminsäureacetyläthylurethan. Sm. 159° (*C.* 1901 [2] 276).
- $C_{13}H_{14}O_5NCl$  1) Diacetat d. 4- oder 6-Chlor-6- oder 4-Acetylamido-2,5-Dioxy-1-Methylbenzol. Sm. 198° (*J. pr.* [2] 63, 186). — \*II, 579.
- $C_{13}H_{14}O_5NBr$  1) Diacetat d. 4- oder 6-Brom-6- oder 4-Acetylamido-2,5-Dioxy-1-Methylbenzol. Sm. 203–204° (*J. pr.* [2] 63, 187). — \*II, 579.
- $C_{13}H_{14}O_5N_2S$  1)  $\alpha$ -[2, $\alpha$ -Dioxybenzyl]- $\beta$ -[4-Sulfophenyl]hydrazin. Zers. bei 100 bis 110°. Na (*B.* 35, 2003 *C.* 1902 [2] 195).
- $C_{13}H_{14}NJS$  1) 2-Jodallyl d. 2-Thiocarbonyl-1-Methyl-1,2-Dihydrochinolin. Sm. 180° u. Zers. (*B.* 35, 3677 *C.* 1902 [2] 1474).
- $C_{13}H_{15}ONJ_3$  1) Di[ $\beta$ -Jodäthyl]äther + Chinolin. Sm. 176° u. Zers. (*B.* 34, 1392).
- $C_{13}H_{15}O_2NS$  1)  $\epsilon$ -[1,2Phätyl]amido- $\alpha$ -Merkaptopentan. Sm. 49,5° (*B.* 35, 1371 *C.* 1902 [1] 1092).
- $C_{13}H_{15}O_2N_2Br$  1) 2,4-Diketo-3-[ $\beta$ - oder  $\gamma$ -Brompropyl]-1-[2-Methylphenyl]tetrahydroimidazol. Sm. 60–61° (*J. pr.* [2] 66, 249 *C.* 1902 [2] 1124).
- 2) 2,4-Diketo-3-[ $\beta$ - oder  $\gamma$ -Brompropyl]-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 141–142° (*J. pr.* [2] 66, 249 *C.* 1902 [2] 1124).
- 3) 2,4-Diketo-3-[ $\beta$ - oder  $\gamma$ -Brompropyl]-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 149–150° (*J. pr.* [2] 66, 249 *C.* 1902 [2] 1124).

- $C_{13}H_{15}O_2N_2P$  1) Phenylamid-4-Methylphenylamid d. Phosphorsäure. Sm. 195 bis 196° u. Zers. (*Soc.* 81, 1369 *C.* 1902 [2] 1197).
- $C_{13}H_{15}O_2N_3Br_2$  1) 3,5-Dibrom-3,5-Dicyan-2,6-Diketo-4,4-Dipropylhexahydropyridin. Sm. 136—138° (*C.* 1901 [1] 581).
- $C_{13}H_{15}O_3NS_2$  1) Benzoyldithiocarbaminsäure- $\alpha$ -Aethylpropionat. Sm. 144—145° (*Ann.* 26, 201).
- $C_{13}H_{15}O_5N_2Br$  1) Diäthylester d. 4-Bromphenylnitrosamidoessigsäure-2-Carbonsäure. Fl. (D.R.P. 134986 *C.* 1902 [2] 1086).
- $C_{13}H_{16}O_2NBr$  2) Piperidid d. 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 82—84° (*M.* 22, 953 *C.* 1902 [1] 194).
- $C_{13}H_{16}O_4NBr$  1) Diäthylester d. 4-Bromphenylamidoessigsäure-2-Carbonsäure. Sm. 97° (D.R.P. 134986 *C.* 1902 [2] 1086).
- $C_{13}H_{16}O_4N_2S$  1) 2-Merkapto-4- $[\alpha\beta\gamma\delta$ -Tetraoxybutyl]-1-Phenylimidazol. Sm. 208° (*B.* 34, 3843 *C.* 1902 [1] 71).
- $C_{13}H_{16}N_2ClBr$  1) Brommethylyat d. 5-Chlor-3-Methyl-4-Aethyl-1-Phenylpyrazol. Sm. 197° (*B.* 34, 1307).
- $C_{13}H_{16}N_2ClJ$  1) Jodmethylyat d. 5-Chlor-3-Methyl-4-Aethyl-1-Phenylpyrazol. Sm. 176° (*B.* 34, 1307).
- $C_{13}H_{17}ONBr_2$  \*1) Diäthylamid d.  $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 127° (*A.* 320, 91).
- $C_{13}H_{17}ONS_2$  1) Isoamylester d. Benzoylamidodithioameisensäure. Sm. 48—49° (*Ann.* 26, 195).
- $C_{13}H_{17}O_3NS$  1) Aethylester d.  $\alpha$ -Phenylamidoformylmerkaptisobuttersäure. Sm. 79—81° (*Ann.* 24, 75). — \*II, 193.
- $C_{13}H_{17}N_2JSe$  1) Aethyläther d. 5-Seleno-3-Methyl-1-Phenylpyrazol-2-Jodmethylyat. Sm. 152° (*A.* 320, 37 *C.* 1902 [1] 666).
- $C_{13}H_{18}ONCl$  1) Nitrosochlorid d.  $\alpha$ -[2,4,6-Trimethylphenyl]- $\alpha$ -Buten. Sm. 122 bis 122,5° (*B.* 35, 2260 *C.* 1902 [2] 275).
- $C_{13}H_{18}ON_8J$  1) 3-Jodmethylyat d. 4-Acetylamido-1,2,5-Trimethylbenzimidazol +  $H_2O$ . Sm. 232° (*B.* 34, 1134).
- $C_{13}H_{18}O_2NJ$  3) Jodmethylyat d. 1,2,3,4-Tetrahydro-1-Chinolylessigsäuremethylester. Zers. bei 150—155° (*A.* 318, 112; *B.* 35, 3585 *C.* 1902 [2] 1385).
- $C_{13}H_{18}O_2N_2S$  2) S-Phenylamid d. Amidothioameisensäure-N-Carbonsäureamylester. Sm. 97—98° (*Soc.* 79, 914).
- $C_{13}H_{18}Cl_2BrJ$  1)  $\alpha\beta$ -Dichloräthyl-4-Isoamylphenyljodoniumbromid. Sm. 109° u. Zers. (*B.* 34, 3687).
- $C_{13}H_{19}OCl_2J$  1)  $\alpha\beta$ -Dichloräthyl-4-Isoamylphenyljodoniumhydroxyd. Salze siehe (*B.* 34 3687).
- $C_{13}H_{19}O_2NS$  2) 1-Phenylsulfon-2,6-Dimethylhexahydropyridin. Sm. 50° (*B.* 34, 2427).
- $C_{13}H_{20}ON_2S$  3) isom. 1-Phenylsulfon-2,6-Dimethylhexahydropyridin. Sm. 65° (*B.* 34, 2427).
- $C_{13}H_{20}ON_2S$  4)  $\alpha$ -Phenyl- $\beta$ -[ $\gamma$ -Oxy- $\alpha\gamma$ -Dimethylbutyl]thioharnstoff. Sm. 131 bis 132° (*M.* 23, 761 *C.* 1902 [2] 1097).
- $C_{13}H_{20}ON_2S$  5)  $\alpha$ -Phenyl- $\beta$ -[ $\alpha$ -Oxymethyl- $\gamma$ -Methylbutyl]thioharnstoff. Fl. (*C.* 1902 [1] 400).
- $C_{13}H_{20}O_2ClAs$  1) Triäthylphenylarsoniumchlorid-4-Carbonsäure. 2 +  $PtCl_4$ , +  $AuCl_3$  (*A.* 320, 312 *C.* 1902 [1] 921).
- $C_{13}H_{21}ON_2Br$  1) Dimethyläthyl-2-Acetylamido-4-Methylphenylammoniumbromid. Sm. 187—187,5° (*B.* 34, 1137).
- $C_{13}H_{21}O_2NS$  \*2) Aethyl- $\alpha$ -Aethylpropylamid d. Benzolsulfonsäure. Sm. 58—58,5° (*J. pr.* [2] 63, 205).
- $C_{13}H_{21}O_2N_2Cl$  4) Benzolsulfonderivat d.  $\beta$ -Aethylamido- $\beta$ -Methylbutan. Sm. 90 bis 91° (*J. pr.* [2] 63, 218).
- $C_{13}H_{21}O_2N_2Cl$  1) Triäthyl-4-Nitrobenzylammoniumchlorid (D.R.P. 87997). — \*II, 288.
- $C_{13}H_{21}O_2N_3J$  \*1) Jodäthylat d. Pilocarpin (*B.* 35, 2452 *C.* 1902 [2] 526).
- $C_{13}H_{22}O_2NCI$  1) Chlormethylyat d. Methylmezcalin. 2 +  $PtCl_4$  (*B.* 34, 3011).
- $C_{13}H_{22}O_8NJ$  1) Jodmethylyat d. Methylmezcalin. Sm. 220° (*B.* 34, 3011).
- $C_{13}H_{24}O_4NJ$  2) Jodmethylyat d. 1-Methylhexahydropyridin-3,4-Dicarbonsäure. Sm. 141° (*M.* 23, 276 *C.* 1902 [1] 1323).

- $C_{13}H_{24}O_5Br_2S_2$  1)  $\beta$ -Dibrom- $\beta^{\zeta}$ -Di[Aethylsulfon]- $\delta$ -Keto- $\beta^{\zeta}$ -Dimethylheptan. Sm. 139—140° (B. 34, 1400; B. 35, 814 C. 1902 [1] 757).
- $C_{13}H_{25}ONS_2$  1) Diisoamyläther d. Acetylimidodimerkaptomethan. Sd. 198 bis 200°<sub>20</sub> (Am. 26, 192).
- $C_{13}H_{28}O_2NCl$  1)  $\zeta$ -Trimethylchlorammonium- $\beta$ -Methylheptan- $\gamma$ -Methylcarbon-säure. 2 + PtCl<sub>4</sub> (A. 323, 328 C. 1902 [2] 1111).
- 2) Aethylesterchlorid d. Tripropylamidoessigsäure. 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (Bl. [3] 9, 236). — \*I, 657.

## — 13 V —

- $C_{13}H_8O_5NCIS$  \*1) Chlorid d. 4-Nitrodiphenylketon-2-Sulfonsäure. Sm. 177° (Am. 25, 6).
- $C_{13}H_9ONClBr$  1) 4-Bromphenyläther d.  $\alpha$ -Chlor- $\alpha$ -Phenylimido- $\alpha$ -Oxymethan. Sm. 45°; Sd. 227°<sub>23</sub> u. Zers. (B. 28, 981). — \*II, 373.
- 2) 2-Chlorphenylbromamid d. Benzolcarbonsäure. Sm. 110° (Soc. 81, 985 C. 1902 [2] 360).
- 3) 2-Bromphenylchloramid d. Benzolcarbonsäure. Sm. 85° (Soc. 81, 986 C. 1902 [2] 360).
- $C_{13}H_{11}ON_3ClHg$  1) 6-Oxy-3-Methylazobenzol-5-Quecksilberchlorid. Zers. bei 249° (C. 1901 [1] 453; B. 35, 2864 C. 1902 [2] 1039).
- $C_{13}H_{11}O_4N_2ClS$  1) 4-Chlor-3-Nitrophenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 142° (D.R.P. 135016 C. 1902 [2] 1166).
- 2) 3-Nitro-4-Methylphenylamid d. 4-Chlorbenzol-1-Sulfonsäure. Sm. 137° (D.R.P. 135016 C. 1902 [2] 1166).
- $C_{13}H_{13}O_3N_3ClS$  1) 4-Chlor-3-Amidophenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 128° (D.R.P. 135016 C. 1902 [2] 1166).
- 2) 3-Amido-4-Methylphenylamid d. 4-Chlorbenzol-1-Sulfonsäure. Sm. 121° (D.R.P. 135016 C. 1902 [2] 1166).
- $C_{13}H_{14}ON_2ClP$  1) Phenylamid-4-Methylphenylamid d. Phosphorsäuremono-chlorid. Sm. 133—134° (C. 1901 [1] 688; Soc. 81, 1369 C. 1902 [2] 1197).

 $C_{14}$ -Gruppe.

- $C_{14}H_{10}$  \*1) Anthracen (D.R.P. 125936 C. 1902 [1] 77; Soc. 81, 1220 C. 1902 [2] 887).
- $C_{14}H_{12}$  \*1) 9,10-Dihydroanthracen (G. 31 [1] 6).
- \*2)  $\alpha\alpha$ -Diphenyläthen. Sm. 6°; Sd. 152°<sub>14</sub> (270—271°) (C. 1901 [1] 1357; B. 35, 2647 C. 1902 [2] 587; C. r. 135, 533 C. 1902 [2] 1209).
- \*4) isom.  $\alpha\beta$ -Diphenyläthen (Isostilben). Sd. 139—145°<sub>12</sub> (C. 1901 [1] 464).
- 8) 9-Methylfluoren. Sm. 46—47°; Sd. oberh. 320° (B. 35, 762 C. 1902 [1] 814).
- $C_{14}H_{14}$  \*1)  $\alpha\alpha$ -Diphenyläthan. Sd. 148°<sub>22</sub> (B. 35, 2647 C. 1902 [2] 587; C. r. 135, 533 C. 1902 [2] 1209).
- \*12) 2-Benzyl-1-Methylbenzol. Sd. 271—272°<sub>742</sub> (R. NEGRUSZ, Privatmittheilung).
- \*13) 3-Benzyl-1-Methylbenzol. Sd. 272—273°<sub>743</sub> (R. NEGRUSZ, Privatmittheilung).
- \*14) 4-Benzyl-1-Methylbenzol. Sd. 274°<sub>750</sub> (R. NEGRUSZ, Privatmittheilung).
- \*16) Tetrahydrophenanthren (G. 31 [1] 7).
- 18) 3,4-Dimethylindacen. Fl. (B. 34, 2793).
- $C_{14}H_{18}$  4) Tetramethylnaphtalin. Sm. — 20°; Sd. 320°. Pikrat (Sm. 138°) (C. 1898 [1] 812). — \*II, 108.
- $C_{14}H_{24}$  9) bim.  $\beta\delta$ -Dimethyl- $\alpha\gamma$ -Pentadiën. Sd. 98—100°<sub>13</sub> (C. 1901 [2] 624).
- $C_{14}H_{20}$  7)  $\alpha\beta$ -Di-[Hexahydrophenyl]äthan? Sd. 220—230° (Am. 25, 290).
- 8) 3,3'-Dimethyldodekahydrobiphenyl (m-Dimethyldicyklohexyl). Sd. 264°<sub>751</sub> (C. 1902 [1] 1278).
- 9) Kohlenwasserstoff (aus Gondangwachs). Sd. 220° (R. 20, 73).
- $C_{14}H_{28}$  4) Dihepten. Sd. 250° (C. r. 135, 88 C. 1902 [2] 503).
- 5) Tetradekanaphten. Sd. 144—146°<sub>90</sub> (Am. 25, 282).
- $C_{14}H_{30}$  \*1) Tetradekan. Sd. 236—238°<sub>760</sub> (Am. 28, 171 C. 1902 [2] 1081).

## — 14 II —

- $C_{14}H_8O_8$  \*1) Ellagsäure (D.R.P. 133458 C. 1902 [2] 554).
- $C_{14}H_5O_2$  \*1) Morphenol (B. 34, 2722).



- $C_{14}H_8O_2$  \*4) 9,10-Anthrachinon. +  $Al_2Br_6$  +  $Al_2Br_6$  +  $2C_6H_6$  (*Am.* 27, 253 *C.* 1902 [1] 1292).
- $C_{14}H_8O_3$  \*5) 9,10-Phenanthrenchinon. Nitrat (*B.* 35, 343 *C.* 1902 [1] 590).  
 \*2) 1-Oxy-9,10-Anthrachinon. Sm. 190° (*B.* 35, 2926 *C.* 1902 [2] 1050).  
 \*7) 9-Ketofluoren-4-Carbonsäure. Sm. 227° (*M.* 23, 29 *C.* 1902 [1] 875).  
 11) 2-Oxy-9,10-Phenanthrenchinon. Sm. 280—283° (*A.* 322, 159 *C.* 1902 [2] 282).  
 12) 3-Oxy-9,10-Phenanthrenchinon. Sm. 330° u. Zers. (*B.* 34, 4007 *C.* 1902 [1] 203; *A.* 322, 138 *C.* 1902 [2] 281).
- $C_{14}H_8O_4$  \*4) 1,4-Dioxy-9,10-Anthrachinon (*C.* 1901 [2] 1189).  
 \*9) 2,3-Dioxy-9,10-Anthrachinon (Hystazarin). Sm. noch nicht bei 260° (*B.* 35, 1778 *C.* 1902 [2] 62).  
 17) 1,4- $\alpha$ -Naphthopyron-2-Carbonsäure ( $\alpha$ -Naphtochromoncarbonsäure). Sm. 277—278° (*B.* 35, 860 *C.* 1902 [1] 812).  
 18) Bianhydrid d. 2-Oxybenzol-1-Carbonsäure (Disalicylid). Sm. 200 bis 201° (*B.* 34, 2951; *B.* 35, 3646 *C.* 1902 [2] 1456).
- $C_{14}H_8O_5$  \*1) 1,2,3-Trioxy-9,10-Anthrachinon (*M.* 23, 688 *C.* 1902 [2] 1119).  
 \*2) 1,2,4-Trioxy-9,10-Anthrachinon (*B.* 35, 1781 *C.* 1902 [2] 63).
- $C_{14}H_8O_6$  \*5) Anthrachryson (*B.* 35, 2305 *C.* 1902 [2] 283).  
 12) 1,4,5,8-Tetraoxy-9,10-Anthrachinon (*C.* 1901 [1] 1028; 1901 [2] 1189).
- $C_{14}H_8O_8$  4) 1,2,4,5,6,8-Hexaoxy-9,10-Anthrachinon (*C.* 1901 [1] 1027; 1901 [2] 1189).
- $C_{14}H_8N_4$  \*1) Chinoxalophenazin. Sm. oberh. 370° (*A.* 319, 269 *C.* 1902 [1] 359).  
 $C_{14}H_8Cl_2$  \*2) 9,10-Dichloranthracen. Sm. 209° (*B.* 34, 2768).  
 $C_{14}H_8Br_2$  \*7) 9,10-Dibromphenanthren. Sm. 112—113° (110°) (*A.* 167, 182 *A.* 321, 333 *C.* 1902 [2] 61).
- $C_{14}H_8N_3$  \*1) Indophenazin (*B.* 34, 4010 *C.* 1902 [1] 205).  
 $C_{14}H_8Br$  \*2) 9-Bromphenanthren (*A.* 321, 332 *C.* 1902 [2] 60).  
 $C_{14}H_{10}O$  \*5) 9-Oxyphenanthren. Sm. 152° (149°). Pikrat (*A.* 321, 298 *C.* 1902 [2] 58; *B.* 35, 2728 *C.* 1902 [2] 643).  
 \*8) 3-Oxyphenanthren. Sm. 118—119° (122—123°) (*B.* 34, 3835; *B.* 34, 4006 *C.* 1902 [1] 203; *A.* 321, 282 *C.* 1902 [2] 57).  
 9) 2-Oxyphenanthren. Sm. 169° (*B.* 34, 2525; *B.* 34, 4005 *C.* 1902 [1] 202; *A.* 321, 305 *C.* 1902 [2] 59).
- $C_{14}H_{10}O_2$  \*9) 9,10-Dioxyphenanthren. Sm. 147—148° (*B.* 35, 3124 *C.* 1902 [2] 1212).  
 \*16) Benzil. Sm. 95° (*B.* 35, 1986 *C.* 1902 [2] 366).  
 \*24) Fluoren-9-Carbonsäure. Sm. 216—217°; Zers. bei 280—290° (*Bl.* [3] 27, 875 *C.* 1902 [2] 991).  
 30) Methyläther d. 2-Oxy-9-Ketofluoren. Sm. 77—78° (*A.* 322, 168 *C.* 1902 [2] 283).
- $C_{14}H_{10}O_3$  \*22) Anhydrid d. Benzolcarbonsäure. Sm. 42° (*B.* 34, 184).  
 34) 1,4,9-Trioxyanthracen. Sm. 156° (*B.* 35, 2924 *C.* 1902 [2] 1049).  
 35) 1,5,9-Trioxyanthracen. Zers. bei 200° (*B.* 35, 2928 *C.* 1902 [2] 1050).  
 54) 1,6,9- oder 1,6,10-Trioxyanthracen. Sm. 176—177° (*B.* 35, 2930 *C.* 1902 [2] 1050).
- $C_{14}H_{10}O_4$  \*10) 7-Methyläther d. 1,7-Dioxyxanthon. Sm. 130,5°. Na (*A.* 318, 366).  
 \*17) Biphenyl-2,2'-Dicarbonsäure. Sm. 228—229° (*A.* 320, 138).  
 \*24) Diphenylester d. Oxalsäure. Sm. 136°; Sd. 320—325° (*B.* 35, 3437 *C.* 1902 [2] 1303).  
 27) 1,2,6,9-Tetraoxyanthracen (Desoxyflavopurpurin) (*C.* 1901 [1] 601).  
 28) 1,2,7,9-Tetraoxyanthracen (Desoxyanthrapurpurin) (*C.* 1901 [1] 601).  
 29) Methyläther d. 5-Oxy-2-Keto-1-[2-Fural]-1,2-Dihydrobenzofuran. Sm. 136° (*B.* 30, 302).  
 30) Dimethyläther d. 1,7-Dioxyxanthon. Sm. 240° (*A.* 318, 367).
- $C_{14}H_{10}O_5$  12) 2-Naphtoxyfumaronsäure. Sm. 236° u. Zers. (*Soe.* 81, 422 *C.* 1902 [1] 757, 999).
- $C_{14}H_{10}O_6$  13) 1,2,5,8,9,10-Hexaoxyanthracen (*D.R.P.* 90722). — \*II, 703.  
 14)  $\alpha\delta$ -Di[2-Furanyl]- $\alpha\gamma$ -Butadien- $\beta\gamma$ -Dicarbonsäure. Zers. bei 217 bis 225°. Ca +  $2H_2O$ , Ba +  $3H_2O$ ,  $Ag_2$  (*B.* 34, 1628).  
 15) Diacetat d. 6,7-Dioxy-1,4-Naphtochinon. Sm. 65—67° (*C.* 1902 [1] 934; *M.* 23, 533 *C.* 1902 [2] 745).
- $C_{14}H_{10}O_7$  7) Anhydrid d. 2,4-Diacetoxyphenylmaleinsäure. Sm. 121—122° (*B.* 34, 384).

- $C_{14}H_{10}N_2$  9) Nitrid d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylelessigsäure. Sm. 72° (B. 34, 499; B. 35, 3329 C. 1902 [2] 1192). — \*II, 941.  
 $C_{14}H_{10}N_4$  \*6) Fluorflavin. Sm. oberh. 360°. 2HCl (A. 319, 267 C. 1902 [1] 359).  
 $C_{14}H_{10}Br_2$  \*2) Phenanthrendibromid (A. 321, 331 C. 1902 [2] 60).  
 $C_{14}H_{11}N$  \*3) 9-Amidophenanthren. Sm. 135—136°. HCl, Pikrat (B. 34, 1463; B. 35, 2728 C. 1902 [2] 643).  
 \*8) 2-Phenylindol. Sm. 186° (D.R.P. 127 245 C. 1902 [1] 154).  
 23) 2-Amidophenanthren. Sm. 85° (B. 34, 2527; A. 321, 318 C. 1902 [2] 60).  
 24)  $\alpha$ -3-Amidophenanthren. Sm. 143° (B. 12, 1158; 34, 2525; A. 321, 313 C. 1902 [2] 59).  
 25)  $\beta$ -3-Amidophenanthren. Sm. 87,5° (B. 12, 1158; 34, 2526, 3533; A. 321, 314 C. 1902 [2] 59).  
 $C_{14}H_{11}N_3$  10) Nitrid d.  $\alpha$ -Phenylhydrazon- $\alpha$ -Phenylelessigsäure. Sm. 152° (B. 34, 122).  
 $C_{14}H_{11}Cl$  \*4)  $\alpha$ -Phenyl- $\beta$ -[4-Chlorphenyl]äthen. Sm. 127° (J. pr. [2] 65, 283 C. 1902 [1] 1216).  
 $C_{14}H_{11}Br$  \*3)  $\beta$ -Bromstilben. Sm. 19° (C. 1901 [1] 464).  
 $C_{14}H_{12}O$  \*8)  $\alpha$ -Keto- $\alpha$ - $\beta$ -Diphenyläthan (A. 319, 163; B. 35, 911 C. 1902 [1] 810; B. 35, 1990 C. 1902 [2] 367).  
 15) 1-Oxy-9,10-Dihydroanthracen. Sm. 94° (B. 35, 2926 C. 1902 [2] 1050).  
 16) Methyläther d. 2-Oxyfluoren. Sm. 106—108° (A. 322, 168 C. 1902 [2] 283).  
 $C_{14}H_{12}O_2$  17) 2,7-Dimethylbiphenylenoxyd. Sm. 82° (B. 34, 3336).  
 \*1) 1,9-Dioxy-9,10-Dihydroanthracen (B. 35, 2925 C. 1902 [2] 1049).  
 \*7) Benzoin (B. 35, 1982 C. 1902 [2] 366).  
 \*13) Methyläther d. 4-Oxydiphenylketon. Sm. 61°; Sd. 354—355°<sub>729</sub> (B. 35, 2814 C. 1902 [2] 1117).  
 \*14) Phenyläther d. Oxymethylphenylketon. Sm. 72° (B. 35, 3563 C. 1902 [2] 1312).  
 \*16) 1-Benzylbenzol-2-Carbonsäure + H<sub>2</sub>O. Sm. 93—94° (127—128° wasserfrei). Ca, Ba, Ag (R. NEGRUSZ, Privatmittheilung).  
 \*17) 1-Benzylbenzol-3-Carbonsäure. Sm. 162,3°. Ca, Ba + 2H<sub>2</sub>O (R. NEGRUSZ, Privatmittheilung).  
 \*18) 1-Benzylbenzol-4-Carbonsäure. Sm. 193—194°. Ba + 2H<sub>2</sub>O (R. NEGRUSZ, Privatmittheilung).  
 36) Äthylenäther d. 2,2'-Dioxybiphenyl. Sm. 98° (B. 35, 305 C. 1902 [1] 586).  
 37) 2'-Oxy-4-Methyldiphenylketon. Sm. 61,5° (B. 35, 2812 C. 1902 [2] 1117).  
 38) Methyläther d. 3-Oxydiphenylketon. Sm. 37°; Sd. 342—343°<sub>730</sub> (B. 35, 2814 C. 1902 [2] 1117).  
 39) Acetat d. 2-Oxybiphenyl (M. 22, 569). — \*II, 538.  
 $C_{14}H_{12}O_3$  \*2) 1,4,9-Trioxy-9,10-Dihydroanthracen. Sm. 89—90° (B. 30, 2923 C. 1902 [2] 1049).  
 39) 1,5,9-Trioxy-9,10-Dihydroanthracen. Sm. 241° (B. 35, 2927 C. 1902 [2] 1050).  
 40)  $\alpha$ -Keto- $\alpha$ -[2,4-Dioxyphenyl]- $\beta$ -Phenyläthan (Phenylresacetophenon). Sm. 115° (B. 35, 1527 C. 1902 [1] 1210).  
 41) Phenylester d. 4-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 92—93° (D.R.P. 46 756 C. 1902 [2] 3646).  
 42) Phenylester d. 4-Oxybenzylmethyläther-1-Carbonsäure. Sm. 75 bis 76° (D.R.P. 46 756). — \*II, 906.  
 43) Benzylester d. 2-Oxybenzol-1-Carbonsäure. Sd. 208°<sub>26</sub> (C. 1901 [1] 922).  
 $C_{14}H_{12}O_4$  \*5) 4-Methyläther d. 2,4,6-Trioxydiphenylketon (Cotoin) (M. 22, 996 C. 1902 [1] 200).  
 31) 3-Methoxyphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 68° (D.R.P. 46 756). — \*II, 888.  
 32) 2-Methoxyphenylester d. 4-Oxybenzol-1-Carbonsäure. Sm. 143° (D.R.P. 57 941). — \*II, 906.  
 $C_{14}H_{12}O_5$  \*3) Acetat d. 7-Oxy-3-Acetyl-2-Methyl-1,4-Benzpyron. Sm. 127° (B. 34, 105).  
 8) Jacarandin. Sm. 243—245° u. Zers.  $\frac{1}{2}$ K (Soc. 81, 217 C. 1902 [1] 532, 822).

- $C_{14}H_{18}O_6$  9) Dimethylphthalidtetronsäure. Sm. 289° (A. 322, 383 C. 1902 [2] 736).  
 $C_{14}H_{12}O_6$  13) Aethylester d. 7-Acetoxy-1,2-Benzpyron-4-Carbonsäure. Sm. 118 bis 119° (B. 34, 383).  
 $C_{14}H_{12}O_7$  \*3) Säure + 2H<sub>2</sub>O (aus 4-Oxybenzol-1-Carbonsäure u. 3,4-Dioxybenzol-1-Carbonsäure). Sm. 188—190° (G. 32 [2] 13 C. 1902 [2] 50).  
 $C_{14}H_{12}O_9$  C 51,8 — H 3,7 — O 44,4 — M. G. 324.  
 1) Gem. Anhydrid d. Essigsäure u. 5-Acetoxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 230° u. Zers. (B. 35, 2913 C. 1902 [2] 1042).  
 $C_{14}H_{12}N_2$  \*20) Nitril d.  $\alpha$ -Phenylamido- $\alpha$ -Phenylessigsäure (B. 35, 3329 C. 1902 [2] 1190).  
 \*25) Nitril d. Phenylbenzylamidoameisensäure. Sm. 60°; Sd. 185 bis 195°<sub>12</sub> (B. 35, 1284 C. 1902 [1] 1094).  
 26)  $\alpha$ -Imido- $\alpha$ -Benzylidenamido- $\alpha$ -Phenylmethan. Sm. 175°. HCl, Ag (B. 22, 1610; 23, 2925; 34, 3030). — IV, 849.  
 27) 9,10-Diamidophenanthren. Sm. 160—166°. 2HCl (B. 35, 2738 C. 1902 [2] 645).  
 $C_{14}H_{12}N_4$  28) 2-Benzylindazol. Sm. 73°. Pikrat (B. 35, 2318 C. 1902 [2] 453).  
 \*9) 5-Phenylimido-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 214° (B. 35, 1714 C. 1902 [2] 29).  
 $C_{14}H_{13}N$  \*3) 4-Benzylidenamido-1-Methylbenzol. Sm. 35° (B. 34, 825).  
 22)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Pyridyl]äthen. Sm. 82°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, HgCl<sub>2</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 35, 2774 C. 1902 [2] 992).  
 23) 2,7-Dimethylcarbazol. Sm. 283° (B. 34, 3335).  
 24) 10-Methyl-5,10-Dihydroakridin. Sm. 96° (B. 35, 2536 C. 1902 [2] 458).  
 25) 10-Methyl-9,10-Dihydrophenanthridin. Sm. 108° (B. 35, 2535 C. 1902 [2] 458).  
 $C_{14}H_{13}Br$  5)  $\alpha$ -Brom- $\alpha\alpha$ -Diphenyläthan. Fl. (C. 1902 [2] 578).  
 6)  $\alpha$ -Brom-4-Methyldiphenylmethan. Fl. (C. 1902 [2] 789).  
 $C_{14}H_{13}O$  \*2)  $\alpha$ -Oxy- $\alpha\beta$ -Diphenyläthen (Toluylenhydrat). Sm. 62° (B. 35, 1987 C. 1902 [2] 366).  
 \*15) Dibenzyläther. Sd. 200—201°<sub>2</sub> (G. 31 [1] 349).  
 23)  $\alpha$ -Oxy- $\alpha\alpha$ -Diphenyläthan. Sm. 81° (B. 35, 2646 C. 1902 [2] 587; C. r. 135, 533 C. 1902 [2] 1209).  
 24)  $\alpha$ -Oxy-4-Methyldiphenylmethan. Sm. 52° (C. 1902 [2] 1199).  
 25) 3-Oxy- $\beta$ -Benzyl-1-Methylbenzol. Sm. 93—93,5°; Sd. 240°<sub>30</sub> (G. 31 [1] 472).  
 26) Aethyläther d. 2-Oxybiphenyl. Sm. 34°; Sd. 276° (M. 22, 569). — \*II, 538.  
 $C_{14}H_{13}O_2$  \*1) Hydrobenzoïn. Sm. 138—139° (B. 34, 1538; B. 35, 1988 C. 1902 [2] 367).  
 \*2) Isohydrobenzoïn. Sm. 121° (B. 34, 1539).  
 \*11) Dimethyläther d. 2,2'-Dioxybiphenyl. Sm. 154—155°; Sd. 307 bis 308°<sub>765</sub> (B. 35, 304 C. 1902 [1] 586).  
 $C_{14}H_{13}O_3$  30) 4,4'-Dioxy-2,2'-Dimethylbiphenyl. Sm. 114° (C. 1902 [2] 1448).  
 $C_{14}H_{11}O_4$  14) Isopropyl-1,8-Dioxy-2-Naphtylketon. Sm. 88° (C. 1901 [2] 1287).  
 18)  $\alpha\beta$ -Di[2,4-Dioxyphenyl]äthan? (J. pr. [2] 54, 417). — \*II, 632.  
 19) Aethyläther d. 7-Oxy-3-Acetyl-2-Methyl-1,4-Benzpyron. Sm. 130° (B. 34, 107).  
 20) Acetat d. 7-Oxy-2-Propyl-1,4-Benzpyron. Sm. 64—65° (B. 34, 1698).  
 21) 5-Methyl-8-Isopropyl-1,4-Benzpyron-2-Carbonsäure. Sm. 245° u. Zers. (Soc. 79, 920).  
 22) 8-Methyl-5-Isopropyl-1,4-Benzpyron-2-Carbonsäure. Sm. 237 bis 238° u. Zers. (Soc. 79, 921).  
 $C_{14}H_{11}O_5$  8) Dimethyldihydroptalidtetronsäure. Sm. 250° u. Zers. (A. 315, 171).  
 $C_{14}H_{11}O_6$  \*4) Pyrousnetsinsäure. Sm. 183—186° (A. 324, 156 C. 1902 [2] 1511).  
 12) Phöniceïn. Zers. bei 190° (C. 1901 [2] 858, 1085).  
 13) Oxyfumareugenoläthersäure. Sm. 172—173° u. Zers. (Soc. 79, 1186).  
 14)  $\alpha\delta$ -Di[2-Furanyl]butan- $\beta\gamma$ -Dicarbonsäure. Sm. 173° (B. 34, 1630).  
 15) Usnidinsäure + 1½H<sub>2</sub>O (Usnetiusäure). Sm. 195° u. Zers. (197°). Na + 2H<sub>2</sub>O, Ba + 3H<sub>2</sub>O (B. 8, 1460; J. pr. [2] 63, 526; A. 319, 393 C. 1902 [1] 434; J. pr. [2] 65, 541 C. 1902 [2] 380).  
 $C_{14}H_{14}O_8$  8) Methyl ester d. 2,4,6-Triacetoxybenzol-1-Carbonsäure. Sm. 77—79° (M. 22, 225).

- $C_{14}H_{14}O_8$  9) Dimethylester d. 5-Acetoxy-1-Methylbenzol-2, 3, 4-Tricarbon-säure. Sm.  $149^\circ$  (B. 35, 2912 C. 1902 [2] 1042).
- $C_{14}H_{14}N_2$  \*32) 2,2'-Dimethylazobenzol. Sm.  $55^\circ$  (A. 320, 127).  
 \*35) 3,3'-Dimethylazobenzol. Sm.  $54^\circ$  (A. 320, 127).  
 \*37) 4,4'-Dimethylazobenzol. Sm.  $144^\circ$  (A. 320, 128).  
 46) 2,4-Diamido- $\alpha\beta$ -Diphenyläthen. Sm.  $119-120^\circ$ .  $2HCl + 2H_2O$  (B. 34, 2843).  
 47) 3-Methyl-1,2-Diphenyl-1,2-Dihydro-R-Azimethylen. Sm.  $150-151^\circ$  (J. pr. [2] 64, 155).  
 48)  $\alpha$ -[4-Amidophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthen. Sm.  $119^\circ$ . HCl, (2HCl, PtCl<sub>4</sub>), (HCl, HgCl<sub>2</sub>) (B. 35, 2793 C. 1902 [2] 995).
- $C_{14}H_{14}N_4$  \*9)  $\alpha$ -Phenylazo- $\alpha$ -Phenylhydrazonäthan. Sm.  $120-121^\circ$  (J. pr. [2] 64, 213).
- $C_{14}H_{14}N_6$  2) 7-Phenylazo-1,5-Dimethyl-1,2,3-Benzotriazol. Sm.  $202^\circ$  (J. pr. [2] 63, 363).
- $C_{14}H_{14}J_2$  \*2) Di[4-Methylphenyl]jodoniumjodid. Sm.  $143-156^\circ$  (Soc. 81, 1358 C. 1902 [2] 1197).
- $C_{14}H_{14}S$  8) 3,4-Dimethyldiphenylsulfid. Sd.  $181.5^\circ_{11}$  (B. 28, 2324). — \*II, 488.  
 $C_{14}H_{14}S_2$  \*5) Dibenzyldisulfid. Sm.  $70^\circ$  (R. 20, 137).  
 \*8) Di[4-Methylphenyl]disulfid. Sm.  $45^\circ$  (Bl. [3] 27, 690 C. 1902 [2] 447).
- $C_{14}H_{14}As_2$  1) 3,3'-Dimethylarsenobenzol. Sm.  $106^\circ$  (A. 320, 327 C. 1902 [1] 922).  
 2) 4,4'-Dimethylarsenobenzol. Sm.  $184^\circ$  (A. 320, 301 C. 1902 [1] 920).
- $C_{14}H_{15}N$  \*4) Methylphenylbenzylamin (B. 35, 1283 C. 1902 [1] 1094).  
 \*5) Dibenzylamin. HNO<sub>3</sub> (C. 1902 [1] 3; B. 34, 557).  
 \*8) Di[4-Methylphenyl]amin. Sm.  $79^\circ$  (B. 34, 1277).  
 20)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Pyridyl]äthan. Sd.  $294-296^\circ$ . (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 35, 2776 C. 1902 [2] 992).
- $C_{14}H_{15}N_3$  \*18) 4-Amido-2,4'-Dimethylazobenzol. Sm.  $127^\circ$  (J. pr. [2] 65, 427 C. 1902 [2] 36).  
 \*19) 4-Amido-2,3'-Dimethylazobenzol. Sm.  $80^\circ$  (J. pr. [2] 65, 442 C. 1902 [2] 38).  
 \*20) 4-Amido-3,4'-Dimethylazobenzol. Sm.  $128^\circ$  (J. pr. [2] 65, 434 C. 1902 [2] 37).  
 \*22) 2-[ $\alpha$ -Phenylhydrazonpropyl]pyridin. Sm.  $140-143^\circ$  (B. 34, 4243 C. 1902 [1] 208).  
 27) 2,4,2'-Triamido- $\alpha\beta$ -Diphenyläthen. Sm.  $156-157^\circ$  (B. 34, 2848).  
 28) 2,4,3'-Triamido- $\alpha\beta$ -Diphenyläthen. Sm.  $112-113^\circ$  (B. 34, 2847).  
 29) 2,4,4'-Triamido- $\alpha\beta$ -Diphenyläthen. Sm.  $176-177^\circ$  (B. 34, 2847).  
 30) 2-Methyldiphenylguanidin. Sm.  $123-125^\circ$  (J. pr. [2] 65, 384 C. 1902 [1] 1330).  
 31) 4-Methyldiphenylguanidin. Sm.  $120-122^\circ$  (J. pr. [2] 65, 385 C. 1902 [1] 1330).  
 32) 2,3'-Dimethyldiazoamidobenzol. Sm.  $74^\circ$  (J. pr. [2] 65, 446 C. 1902 [2] 38).  
 33) 2,4'-Dimethyldiazoamidobenzol. Sm.  $119-120^\circ$  (J. pr. [2] 65, 432 C. 1902 [2] 37).  
 34) 3,3'-Dimethyldiazoamidobenzol. Sm.  $50-52^\circ$  (J. pr. [2] 65, 444 C. 1902 [2] 38).  
 35) 3',4'-Dimethyldiazoamidobenzol. Sm.  $96-97^\circ$  (J. pr. [2] 65, 425 C. 1902 [2] 36).  
 36) 4-Amido-2,2'-Dimethylazobenzol. Sm.  $116-117^\circ$  (J. pr. [2] 65, 447 C. 1902 [2] 38).  
 37) 4-Amido-3,3'-Dimethylazobenzol. Sm.  $124^\circ$  (J. pr. [2] 65, 445 C. 1902 [2] 38).
- $C_{14}H_{15}N_5$  \*1)  $\alpha$ -Diphenylguanylguanidin. Sm.  $167^\circ$ . HCl, (2HCl, PtCl<sub>4</sub>), HNO<sub>3</sub> (B. 34, 2597).
- $C_{14}H_{15}P$  4)  $\beta$ -Phenyläthylphenylphosphin. Sm.  $75^\circ$ ; Sd.  $190^\circ_{45}$  (A. 315, 51).  
 $C_{14}H_{15}O$  \*3) 3-Keto-4-Benzyliden-1-Methylhexahydrobenzol (Bl. [3] 27, 304 C. 1902 [1] 1221).  
 7) 4-Keto-6-Methyl-2-[4-Methylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm.  $42-43^\circ$ ; Sd.  $198-202^\circ_{18}$  (B. 34, 790).  
 8) 3-Keto- $\beta$ -Benzyliden-1,1-Dimethyl-R-Pentamethylen. Sm.  $66-67^\circ$  (A. 324, 111 C. 1902 [2] 1201).

- $C_{14}H_{10}O_2$  10) Diäthyläther d. 2,3-Dioxynaphtalin. Sm. 96—97° (*M.* 23, 520 *C.* 1902 [2] 744).  
 11) l-Amylester d.  $\beta$ -Phenylakrylsäure. Sd. 210°<sub>55</sub> (*Ph. Ch.* 20, 580). — \*II, 862.
- $C_{14}H_{10}O_3$  4) Aethylester d.  $\gamma$ -Keto- $\alpha$ -[4-Methylphenyl]- $\alpha$ -Buten- $\beta$ -Carbonsäure. (Ae. d. 4-Methylbenzylidenacetessigsäure). Sm. 74° (*B.* 34, 788).
- $C_{14}H_{10}O_4$  12) Artemisininsäure. Sm. 179—181° (*C.* 1902 [1] 877).  
 13) Dimethylester d. Bis-R-Penten- $\beta$ -Dicarbonsäure. Sm. 85° (*B.* 34, 70).  
 14) Aethylester d.  $\beta\delta$ -Diketo- $\alpha$ -Phenylpentan- $\gamma$ -Carbonsäure (Ae. d. Phenylacetylacetylessigsäure). Sd. 190°<sub>15</sub> u. Zers. Cu (*B.* 35, 929 *C.* 1902 [1] 807).
- $C_{14}H_{10}O_5$  \*18) Diäthylester d. Oxyfumarphenyläthersäure. Sd. 142—143,5° (*G.* 32 [2] 55 *C.* 1902 [2] 902).  
 19) Oxyfumar-2-Methyl-5-Isopropylphenyläthersäure. Sm. 175° u. Zers. (*Soc.* 79, 921).  
 20) Oxyfumar-3-Methyl-6-Isopropylphenyläthersäure. Sm. 215° u. Zers. (*Soc.* 79, 919).
- $C_{14}H_{10}O_6$  \*8) Triacetat d. 2,4,6-Trioxy-1,3-Dimethylbenzol. Sm. 123° (*M.* 22, 221).  
 15) Säure (aus Tetronsäure u. Mesityloxyd). Sm. 230° (*A.* 315, 163).  
 16)  $\alpha\gamma$ - $\epsilon\zeta$ -Diakton d.  $\alpha\beta$ -Dioxy- $\delta$ -Keto- $\zeta$ -Oxymethyl- $\delta\delta$ -Dimethyl- $\beta\epsilon$ -Nonadien- $\gamma\epsilon$ -Dicarbonsäure +  $H_2O$  (Acetonylpropylidenbistetransäure). Sm. 120° (und 165—167°) (*A.* 315, 165).  
 17) Aethylester d. 2-Oxy-4-Aethoxylbenzoylbrenztraubensäure. Sm. 99—100° (*B.* 34, 2477).  
 18) Aethylester d. 2-Oxy-5-Aethoxylbenzoylbrenztraubensäure. Sm. 92° (*B.* 35, 2547 *C.* 1902 [2] 597).
- $C_{14}H_{10}O_7$  \*7) Trimethylester d. 5-Oxy-1-Methylbenzylmethylether-2,3,4-Tricarbonsäure (*B.* 34, 2154).  
 \*8) 2-Aethylester d. 3-Oxy-1-Methylbenzyläthyläther-2,4,6-Tricarbonsäure. Sm. 195° (*G.* 31 [1] 156).  
 \*9) Diäthylester d. 3-Oxy-1-Methylbenzol-2,4,6-Tricarbonsäure. Sm. 137—138°. Na +  $3\frac{1}{2}H_2O$ , Ba +  $4H_2O$  (*G.* 30 [1] 148).  
 12) Phönin (*C.* 1901 [2] 858, 1085).  
 13) Methylester d. 2,4-Diacetoxy-6-Methoxyl-1-Methylbenzol-3-Carbonsäure. Sm. 75—77° (*M.* 23, 101 *C.* 1902 [1] 1099).  
 14) Aethylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -[2-Oxy-4,6-Dimethoxyphenyl]propan- $\gamma$ -Carbonsäure (Ae. d. 2-Oxy-4,6-Dimethoxybenzoylbrenztraubensäure). Sm. 149° (*B.* 35, 862 *C.* 1902 [1] 812).
- $C_{14}H_{10}N_2$  \*21) 4,4'-Diamido-2,2'-Dimethylbiphenyl. Sm. 87—88° (108—109°). Pikrat (*C.* 1902 [2] 1447).  
 \*24) 4,4'-Diamido-3,3'-Dimethylbiphenyl. Pikrat, Dipikrat (*J. pr.* [2] 66, 167 *C.* 1902 [2] 937; *B.* [3] 27, 111 *C.* 1902 [1] 721).  
 \*27) s-Di[2-Methylphenyl]hydrazin. Sm. 165° (*B.* 35, 1968 Anm. *C.* 1902 [2] 111).  
 \*29) s-Di[4-Methylphenyl]hydrazin. Sm. 133—134° (*J. pr.* [2] 65, 109 *C.* 1902 [1] 993; *B.* 35, 1968 Anm. *C.* 1902 [2] 111).  
 \*38) uns-Dibenzylhydrazin (*B.* 34, 558).  
 39) 2,2'-Diamido-4,4'-Dimethylbiphenyl. Sm. 120° (*B.* 34, 3332).  
 40) 4-Amido-2-Benzylamido-1-Methylbenzol. Sm. 81° (62°) (*B.* 35, 339 *C.* 1902 [1] 595; D.R.P. 128754 *C.* 1902 [1] 610).
- $C_{14}H_{10}N_4$  \*7) 5,5'-Diamido-2,2'-Dimethylazobenzol. Sm. 158—159°. 2HCl, (2HCl, PtCl<sub>4</sub>) (*J. pr.* [2] 63, 564).  
 13) 4,6-Diamido-2,3-Dimethylazobenzol. Sm. 127° (*B.* 35, 645 *C.* 1902 [1] 751).  
 14) 4,6-Diamido-2,5-Dimethylazobenzol. Sm. 90—91° (*B.* 35, 647 *C.* 1902 [1] 751).  
 15) 2,6-Diamido-3,4-Dimethylazobenzol. Sm. 171—172° (*B.* 35, 646 *C.* 1902 [1] 751).  
 16) 2,4-Diamido-3,5-Dimethylazobenzol. Sm. 208—209° (97,5—98°) (*Soc.* 81, 94 *C.* 1902 [1] 186; *B.* 35, 646 *C.* 1902 [1] 751).  
 17) 2,6-Diamido-3,5-Dimethylazobenzol. Sm. 182—183° (*Soc.* 81, 95 *C.* 1902 [1] 186, 416; *B.* 35, 646 *C.* 1902 [1] 751).  
 18) 4,4'-Diamido-3,3'-Dimethylazobenzol. Sm. 218—220° (*C.* 1901 [1] 1154).



- $C_{14}H_{16}N_4$  19) 3,3'-Di[Methylamido]azobenzol. Sm. 108° (C. 1901 [1] 105).  
 $C_{14}H_{18}N_8$  \*1)  $\alpha\beta$ -Diphenylhydrazon- $\alpha\beta$ -Diamidoäthan. Sm. 226° (J. pr. [2] 64, 218).  
 $C_{14}H_{17}N$  \*2) 2-Diäthylamidonaphtalin. Sd. 318—319°. HCl, HJ, d-Campher-sulfonat (Bl. [3] 27, 883 C. 1902 [2] 991; Bl. [3] 27, 981 C. 1902 [2] 1211).  
 $C_{14}H_{17}N$  9) 4-Amido-4'-Dimethylamidodiphenylamin. Sm. 116° (B. 35, 3088 C. 1902 [2] 1116).  
 $C_{14}H_{15}O$  4)  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -Oktin. Sd. 180—182°<sub>18</sub> (C. r. 134, 356 C. 1902 [1] 629).  
5) 3-Keto-1-Methyl-4-Benzylhexahydrobenzol. Sd. 164°<sub>11</sub> (Bl. [3] 27, 305 C. 1902 [1] 1221).  
 $C_{14}H_{13}O_2$  10) Eudesmiasäure. Sm. 160° (C. 1901 [1] 1007).  
11) Amylester d.  $\beta$ -Phenylakrylsäure. Sd. 186—188°<sub>20</sub> (Soc. 79, 1307 C. 1902 [1] 195).  
12) act. Amylester d.  $\beta$ -Phenylakrylsäure. Sd. 192°<sub>29</sub> (Ph. Ch. 20, 579). — \*II, 850.  
 $C_{14}H_{18}O_3$  17) Aethylester d.  $\gamma$ -Keto- $\delta$ -Phenyl- $\beta$ -Methylbutan- $\beta$ -Carbonsäure. Sd. 164—165°<sub>18</sub> (C. 1901 [1] 724). — \*II, 976.  
18) Aethylester d.  $\alpha$ -[4-Methylbenzoyl]isobuttersäure. Sd. 169—172°<sub>25</sub> (C. 1901 [1] 724). — \*II, 976.  
 $C_{14}H_{18}O_4$  22) Benzol-1,4-Di[Propyl- $\beta$ -Carbonsäure] (p-Phenylendisobuttersäure). Sm. 169° (B. 34, 2789).  
23) Aethylester d. Oxyessig-[2-Methoxyl-4-Allylphenyl]äthersäure. Sm. 36—37°; Sd. 200—205°<sub>19</sub> (D.R.P. 65393; M. 22, 130). — \*II, 589.  
24) Aethyl-2-Methyl-5-Isopropylphenylester d. Oxalsäure. Sd. 170°<sub>10</sub> (B. 35, 3447 C. 1902 [2] 1303).  
25) Aethyl-3-Methyl-6-Isopropylphenylester d. Oxalsäure. Sd. 168°<sub>10</sub> (B. 35, 3447 C. 1902 [2] 1303).  
26) Diacetat d.  $\alpha\gamma$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Methylpropan. Sd. 287—290° (M. 22, 98). — \*II, 672.  
27) Diacetat d. 4,5-Di[Oxymethyl]-1,2-Dimethylbenzol. Sm. 65° (B. 35, 871 C. 1902 [1] 804).  
 $C_{14}H_{13}O_5$  12)  $\alpha\beta$ -Diacetat d. 4-Oxy-1-[ $\alpha\beta$ -Dioxypropyl]benzol-4-Methyläther. Sd. 210°<sub>44</sub> (B. 35, 2997 C. 1902 [2] 1048).  
 $C_{14}H_{18}O_7$  \*4) Diäthylester d. Ketodimethylidicyklopentantricarbonsäure. Sm. 75°. K<sub>2</sub> (Soc. 79, 777).  
 $C_{14}H_{18}O_9$  4) Dhurrinsäure (C. 1902 [2] 268).  
 $C_{14}H_{13}N_2$  7) 5-Amyl-3-Phenylpyrazol. Sm. 76° (Bl. [3] 25, 307).  
 $C_{14}H_{13}N_4$  \*6) s-Di[5-Amido-2-Methylphenyl]hydrazin (J. pr. [2] 63, 567).  
8)  $\alpha\alpha$ -Di[2-Amidobenzyl]hydrazin. Sm. 64—65°. 4HCl (B. 35, 1568 C. 1902 [1] 1206).  
 $C_{14}H_{19}N$  9) 2-Methylen-1,3-Dimethyl-3-Isopropyl-2,3-Dihydroindol. HJ, Pikrat (C. 1902 [2] 1322).  
 $C_{14}H_{20}O_2$  \*3) Pyrophotosantonsäure (G. 32 [1] 310 C. 1902 [1] 1404).  
11) 3,4-Dioxy-1-Methyl-4-Benzylhexahydrobenzol. Sm. 152—153° (Bl. [3] 27, 303 C. 1902 [1] 1221).  
12) Silveolsäure. Sm. 138°. K, Ba (C. 1901 [1] 1228).  
13) Lakton (aus Asarum canadense (Soc. 81, 71 C. 1902 [1] 120).  
14) Aethylester d. 3-Methyl-1-Isopropyl-1,2-Dihydrobenzol-5-Methyl-carbonsäure. Sd. 154—158°<sub>18</sub> (A. 323, 150 C. 1902 [2] 842).  
15) Acetat d.  $\epsilon$ -Oxy- $\epsilon$ -Phenyl- $\beta$ -Methylpentan. Sd. 137—139°<sub>9</sub> (C. 1901 [2] 623).  
 $C_{14}H_{20}O_3$  \*15)  $\alpha$ -Citrylidenacetessigsäure. Sm. 138° (C. 1901 [2] 903).  
28)  $\beta$ -Jononcarbonsäure. Sm. 208° (C. 1901 [2] 1103).  
29) Lakton (aus Citral u. Jodessigsäureäthylester). Sd. 160°<sub>10</sub> (Bl. [3] 27, 602 C. 1902 [2] 363).  
30) Aethylester d.  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sd. 171—173°<sub>15</sub> (C. 1902 [1] 1293).  
31) Aethylester d. 4-Oxy-1-Isoamylbenzol-1-Carbonsäure? Sm. 75° (A. 319, 340 C. 1902 [1] 351).  
 $C_{14}H_{20}O_5$  3) Dibutylester d. Furan-2,5-Dicarbonsäure. Sm. 37—38°; Sd. 186 bis 190°<sub>13</sub> (B. 34, 3455).  
4) Diisobutylester d. Furan-2,5-Dicarbonsäure. Sm. 88°; Sd. 172 bis 174°<sub>13</sub> (B. 34, 3455).

- $C_{14}H_{20}O_7$  6) Acetat d. trim.  $\beta\gamma$ -Diketobutan. Sm.  $93^\circ$  (B. 35, 3294 C. 1902 [2] 1247).
- $C_{14}H_{20}O_8$  \*2) Tetraäthylester d. Aethentetracarbonsäure (B. 34, 2079).  
C 48,3 — H 5,7 — O 46,0 — M. G. 348.
- $C_{14}H_{20}O_{10}$  1) Tetraacetat d. Galaktose. Sm.  $145^\circ$  (M. 22, 1046 C. 1902 [1] 181).  
2) Bassorinsäure. BaO (Soc. 79, 1182).
- $C_{14}H_{20}O_{13}$  9) 4-Phenylamidomethyl-1-Methylhexahydrobenzol. Sd.  $195^\circ_{90}$  (C. 1901 [2] 152).
- $C_{14}H_{21}N$  10)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[Hexahydro-2-Pyridyl]äthan. Sd.  $145$ — $148^\circ_{11}$ .  
(2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (B. 35, 2776 C. 1902 [2] 992).
- $C_{14}H_{22}O$  16) 1-Oxy- $\beta$ -Tetraäthylbenzol. Sm.  $45^\circ$ ; Sd.  $270$ — $271^\circ$  (B. 32, 2393). —  
\*II, 467.
- 17)  $\alpha$ -Methyljonon. Sd.  $140$ — $150^\circ_{30}$  (D.R.P. 127 424 C. 1902 [1] 235;  
D.R.P. 133 758 C. 1902 [2] 613).
- 18)  $\beta$ -Methyljonon. Sd.  $140$ — $155^\circ_{20}$  (D.R.P. 127 424 C. 1902 [1] 235;  
D.R.P. 133 758 C. 1902 [2] 613).
- $C_{14}H_{22}O_2$  19) Pseudomethyljonon (D.R.P. 127 424 C. 1902 [1] 235).  
\*1) 1,3-Dioxy- $\beta$ -Di[tert. Butyl]benzol. Sm.  $116$ — $118^\circ$  (C. 1902 [2] 1198).
- \*11) Aethylester d. Citrylidenessigsäure. Sd.  $129^\circ$  (Bl. [3] 27, 602 C. 1902 [2] 363).
- 12) isom. 1,3-Dioxy- $\beta$ -Di[tert. Butyl]butylbenzol. Sm.  $119,5^\circ$  (C. 1902 [2] 1198).
- 13) Methylster d. Santalensäure. Sd.  $232$ — $234^\circ_{35}$  (Soc. 79, 137). —  
\*II, 711.
- 14) Aethylester d. Säure  $C_{12}H_{18}O_2$  (aus Carvenon). Sd.  $135$ — $137^\circ_{16}$  (C. 1902 [1] 1294; A. 323, 156 C. 1902 [2] 843).
- 15) Aethylester d. Säure  $C_{12}H_{18}O_2$  (aus Dihydrocarvon). Sd.  $145$ — $148^\circ_{18}$  (C. 1902 [1] 1294).
- $C_{14}H_{22}O_3$  \*8) Aethylester d. Methylcamphocarbonsäure (Bl. [3] 27, 682 C. 1902 [2] 431).
- 19) Diäthylester d. 1,2,3-Trioxy- $\beta$ -Diäthylbenzol. Sd.  $149$ — $150^\circ_{15}$  (M. 23, 193 C. 1902 [1] 1332).
- 20) Triäthyläther d. 1,2,3-Trioxy- $\beta$ -Aethylbenzol. Sd.  $143^\circ_{15}$  (M. 23, 192 C. 1902 [1] 1331).
- 21) Triäthyläther d. 1,2,4-Trioxy- $\beta$ -Aethylbenzol. Sm.  $31$ — $32^\circ$ ; Sd.  $157$ — $160^\circ_{18}$  (M. 22, 599).
- $C_{14}H_{22}O_4$  \*3) Digitogensäure (B. 34, 3564).
- $C_{14}H_{22}O_6$  10) Allylhomocampfersäure. Sm.  $163^\circ$  (B. 35, 3630 C. 1902 [2] 1468).
- \*4) Diäthylester d. Aethylidenbisacetessigsäure. Sm.  $79$ — $80^\circ$  (A. 323, 100 C. 1902 [2] 784).
- $C_{14}H_{22}O_8$  \*6) Tetraäthylester d. Aethan- $\alpha\alpha\beta\beta$ -Tetracarbonsäure. Sm.  $76^\circ$  (C. 1902 [1] 27).
- $C_{14}H_{24}O_2$  \*4) Butyrat d. 1-Borneol. Sd.  $246$ — $247^\circ$  (C. r. 134, 609 C. 1902 [1] 872).  
8)  $\beta$ -Silvinolsäure. Sm.  $89$ — $95^\circ$  (C. 1901 [1] 1228).
- 9) Aethylester d. 2-Methyl-5-Isopropyl-1,2,3,4-Tetrahydrobenzol-6-Methylcarbonylsäure? Sd.  $140$ — $142^\circ_{14}$  (A. 323, 153 C. 1902 [2] 842).
- 10) Aethylester d. Säure  $C_{13}H_{20}O_2$  (aus Carvomentholessigsäureäthylester). Sd.  $150$ — $152^\circ_{13}$  (A. 323, 155 C. 1902 [2] 843).
- 11) 1-Menthylester d. Crotonsäure (C. 1902 [2] 1238).
- 12) Isobutytrat d. 1-Borneol. Sd.  $242$ — $244^\circ$  (C. r. 134, 609 C. 1902 [1] 872).
- 13) Isobutytrat d. Isoborneol. Sd.  $132$ — $133^\circ_{19}$  (J. pr. [2] 65, 226 C. 1902 [1] 1220).
- $C_{14}H_{24}O_3$  \*4) Menthylester d. Acetessigsäure (C. 1902 [2] 208).
- 5) Aethylester d. 3-Oxy-4-Isopropyl-1-Methylhexahydrobenzol-3-Methylcarbonylsäure (Ae. d. Pulegolessigsäure). Sd.  $142^\circ$  (Bl. [3] 27, 601 C. 1902 [2] 363).
- 6) Menthylester d.  $\beta$ -Oxycrotonsäure. Cu (C. 1902 [2] 208).
- $C_{14}H_{24}O_4$  \*7) Diäthylester d.  $\gamma$ -Aethyl- $\gamma$ -Hexen- $\frac{1}{2}$ -Dicarbonylsäure. Sd.  $161$ — $162^\circ_{23}$  (C. 1902 [1] 630).
- 11) Diäthylester d. 3-Methylhexahydrophenylmalonsäure. Sd.  $150$  bis  $154^\circ_{10-12}$  (B. 34, 3885 C. 1902 [1] 110).
- $C_{14}H_{24}O_6$  \*2) Triäthylester d. Pentan- $\alpha\gamma\gamma$ -Tricarbonsäure. Sd.  $175$ — $179^\circ_{30}$  (Soc. 79, 128).

- $C_{14}H_{24}O_6$  \*16) Triäthylester d. Pentan- $\alpha\beta\gamma$ -Tricarbonsäure. Sd. 170—175°<sub>16</sub> (Soc. 79, 1350 C. 1902 [1] 51).  
 20) Diäthylester d. Caproyläpfelsäure. Sd. 182—182,6°<sub>17</sub> (Ph. Ch. 36, 142).  
 21) Triacetat d.  $\gamma\epsilon\zeta$ -Trioxy- $\beta\gamma$ -Dimethylhexan. Fl. (J. pr. [2] 64, 352).  
 $C_{14}H_{26}O_2$  9) Acetat d.  $\vartheta$ -Oxy- $\beta\zeta$ -Dimethyl- $\beta$ -Deken. Sd. 120—123°<sub>8</sub> (C. 1901 [2] 623).  
 10) 1-Menthylester d. Isobuttersäure (C. 1902 [2] 1238).  
 $C_{14}H_{26}O_3$  5) Aethylester d. 2-Oxy-1-Methyl-4-Isopropylhexahydrobenzol-2-Methylcarbonsäure. Sd. 162—164°<sub>18</sub> (A. 323, 154 C. 1902 [2] 843).  
 6) Aethylester d. 3-Oxy-1-Methyl-4-Isopropylhexahydrobenzol-3-Methylcarbonsäure (Ac. d. Mentholeissigsäure). Sd. 150—152°<sub>14</sub> (A. 323, 152 C. 1902 [2] 842).  
 $C_{14}H_{26}O_4$  21) Diisoamylidenäther d. d-Erythrit. Sm. 105—106° (Bl. [3] 25, 742).  
 22) Diisoamylidenäther d. l-Erythrit. Sm. 105—106° (Bl. [3] 25, 742).  
 23) Diisoamylidenäther d. r-Erythrit. Sm. 72—73° (Bl. [3] 25, 744).  
 24) Diisoamylidenäther d. i-Erythrit. Fl. (Bl. [3] 25, 745).  
 25) Diacetat d.  $\delta$ -Oxy- $\gamma$ -Oxymethyl- $\beta\zeta$ -Dimethylheptan. Sd. 145°<sub>18</sub> (M. 22, 556).  
 $C_{14}H_{26}O_6$  4) Aethyl-sec. Oktylester d. d-Weinsäure. Sd. 200—202°<sub>16</sub> (Soc. 79, 1105).  
 $C_{14}H_{27}Cl$  1) Chlortetradekanaphten Sd. 150—155°<sub>13</sub> (Am. 25, 295).  
 $C_{14}H_{28}O_2$  \*1) Myristinsäure (C. 1901 [2] 189).  
 10) Dodekan- $\epsilon$ -Methylcarbonsäure ( $\beta$ -Diönanthylsäure). Sm. 4°; Sd. 190 bis 191°<sub>13</sub> (Bl. [3] 25, 301; C. r. 134, 469 C. 1902 [1] 743).  
 11) Acetat d.  $\epsilon$ -Oxy- $\beta\epsilon\zeta$ -Trimethylnonan. Sd. 120°<sub>18</sub> (C. 1901 [2] 624).  
 $C_{14}H_{28}O_4$  2) Tetraäthyläther d. 1,1,4,4-Tetraoxyhexahydrobenzol. Sm. 89° (B. 34, 1344).  
 $C_{14}H_{28}Cl_2$  1) Dichlortetradekan. Sd. 175—180°<sub>17</sub> (Am. 28, 173 C. 1902 [2] 1081).  
 $C_{14}H_{29}N$  \*1) 1-Diäthylmenthylamin (C. 1902 [2] 1238).  
 $C_{14}H_{29}Cl$  2) Chlortetradekan. Sd. 150—153°<sub>30</sub> (Am. 28, 172 C. 1902 [2] 1081).  
 $C_{14}H_{30}O$  \*3) norm. Diheptyläther. Sd. 260° (G. 31 [1] 334).  
 4)  $\epsilon$ -[ $\beta$ -Oxyäthyl]dodekan ( $\beta$ -Diönanthylalkohol). Sd. 286—289° (Bl. [3] 25, 302; C. r. 134, 469 C. 1902 [1] 743).  
 $C_{14}H_{30}O_2$  3) Diamyläther d.  $\alpha\delta$ -Dioxybutan. Sd. 260—261°<sub>750</sub> (C. 1901 [1] 613).

## — 14 III —

- $C_{14}H_2O_5Br_8$  1) Verbindung (aus Tetrabrom-1,2-Benzochinon) oder  $C_{14}O_5Br_8$ . Sm. 230° (Am. 26, 43).  
 $C_{14}H_4O_2Cl_6$  1) Verbindung (aus  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen). Sm. 248° (J. pr. [2] 59, 231). — \*II, 606.  
 $C_{14}H_4O_2Cl_8$  1) Verbindung (aus  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen). Sm. 185° (J. pr. [2] 59, 234). — \*II, 606.  
 $C_{14}H_4O_{15}N_6$  C 33,9 — H 0,8 — O 48,4 — N 16,9 — M. G. 496.  
 1) Anhydrid d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 270° u. Zers. (Soc. 67, 600). — \*II, 778.  
 $C_{14}H_5OCl_7$  1) Chlorid d. 3,4,5,6-Tetrachlordiphenyldichlormethan-2-Carbonsäure. Sm. 143—144° (Bl. [3] 27, 184 C. 1902 [1] 934).  
 $C_{14}H_5O_2Cl_3$  2) 1,2,4-Trichlor-9,10-Anthrachinon. Sm. 185,5° (B. 34, 2113).  
 $C_{14}H_5O_2Cl_5$  2) Chlorid d. 3,4,5,6-Tetrachlor-2-Benzoylbenzol-1-Carbonsäure. Sm. 183° (A. 238, 342; Bl. [3] 27, 185 C. 1902 [1] 934). — II, 1704.  
 $C_{14}H_5O_2Cl_2$  4) 1,5-Dichlor-9,10-Anthrachinon. Sm. 232° (D.R.P. 131538 C. 1902 [1] 1342).  
 5) 1,8-Dichlor-9,10-Anthrachinon (D.R.P. 131538 C. 1902 [1] 1342).  
 $C_{14}H_5O_3Cl_1$  1) Verbindung (aus d. Verb.  $C_{14}H_5O_3Cl_6$ ). J. pr. [2] 59, 236). — \*II, 606.  
 $C_{14}H_5O_2Cl_6$  1)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 248° (J. pr. [2] 59, 231). — \*II, 606.  
 $C_{14}H_5O_2Cl_3$  2)  $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Keto-1,4-Dihydrophenyl]äthan. Sm. 222° (J. pr. [2] 59, 231). — \*II, 606.  
 $C_{14}H_8O_3Br_2$  2) 2,4-Dibrom-1-Oxy-9,10-Anthrachinon. Sm. 233° (C. 1902 [1] 287).  
 $C_{14}H_8O_4Cl_2$  2) 4,8-Dichlor-1,5-Dioxy-9,10-Anthrachinon (p-Dichloranthrarufin). (D.R.P. 127699 C. 1902 [1] 338).  
 3)  $\beta$ -Dichlor-1,6-Dioxy-9,10-Anthrachinon (p-Dichlorechrysazin) (D.R.P. 127699 C. 1902 [1] 339).

- $C_{14}H_6O_4Br_2$  5) 4, 8-Dibrom-1, 5-Dioxy-9, 10-Anthrachinon (p-Dibromanthrarufin). (D. R. P. 127699 *C.* 1902 [1] 339).
- 6) ?-Dibrom-1, 6-Dioxy-9, 10-Anthrachinon (p-Dibromchrysazin (D. R. P. 127699 *C.* 1902 [1] 339).
- $C_{14}H_6O_6Cl_4$  1) Anhydrid d. 3, 5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm. 186 bis 187° (*B.* 30, 223). — \*II, 894.
- $C_{14}H_6O_8N_2$  \*4) 2, 7-Dinitro-9, 10-Phenanthrenchinon? Sm. 300° (301—303°) (*B.* 35, 3122 *C.* 1902 [2] 1212; *A.* 321, 336 *C.* 1902 [2] 61).
- 7) ?-Dinitro-9, 10-Phenanthrenchinon. Sm. 215—217° (*B.* 35, 3122 *C.* 1902 [2] 1212).
- $C_{14}H_6O_8N_2$  5) 4, 8-Dinitro-1, 5-Dioxy-9, 10-Anthrachinon (*C.* 1901 [2] 1189).
- $C_{14}H_6O_{10}N_2$  1) 4, 8-Dinitro-1, 3, 5, 7-Tetraoxy-9, 10-Anthrachinon (*C.* 1901 [2] 1189).
- $C_{14}H_7O_2N$  2) Farbstoff (aus 2-Amido-9, 10-Anthrachinon) (D. R. P. 129845 *C.* 1902 [1] 839).
- $C_{14}H_7O_2Cl$  \*2) Chlorid d. 9-Ketofluoren-4-Carbonsäure. Sm. 128° (*M.* 23, 32 *C.* 1902 [1] 875).
- 3) 1-Chlor-9, 10-Anthrachinon (D. R. P. 131538 *C.* 1902 [1] 1342).
- 4) Chlorid d. 9-Ketofluoren-1-Carbonsäure. Sm. 140° (*M.* 23, 890 *C.* 1902 [2] 1472).
- $C_{14}H_7O_2Br$  \*1) 1-Brom-9, 10-Anthrachinon (D. R. P. 131538 *C.* 1902 [1] 1342).
- 2) ?-Brom-9, 10-Phenanthrenchinon. Sm. 126° (*A.* 321, 334 *C.* 1902 [2] 61; *A.* 322, 170 *C.* 1902 [2] 283).
- $C_{14}H_7O_3Cl_3$  3) 3, 4, 6- oder 3, 5, 6-Trichlor-2-Benzoylbenzol-1-Carbonsäure. Sm. 177° (*B.* 34, 2112).
- $C_{14}H_7O_4N$  \*2) 2-Nitro-9, 10-Phenanthrenchinon. Sm. 257° (*A.* 321, 336 *C.* 1902 [2] 61).
- 3) 3-Nitro-9, 10-Phenanthrenchinon. Sm. 275° (279—280° u. Zers.) (*A.* 321, 337 *C.* 1902 [2] 61; *B.* 35, 3119 *C.* 1902 [2] 1211).
- $C_{14}H_7O_5N$  4) ?-Nitro-3-Oxy-9, 10-Phenanthrenchinon. Sm. 259—260° (*A.* 322, 155 *C.* 1902 [2] 282).
- $C_{14}H_7O_5Cl$  \*1) 4-Chlor-1, 2, 3-Trioxy-9, 10-Anthrachinon. Sm. 223° (*M.* 22, 722).
- $C_{14}H_7O_5Br$  \*2) 4-Brom-1, 2, 3-Trioxy-9, 10-Anthrachinon. Sm. 217° (*C.* 1901 [2] 1242).
- $C_{14}H_7O_6N_3$  2) 2-Nitrophenylimid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 167° (*C.* 1901 [2] 1159).
- 3) 2-Nitrophenylimid d. 4-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 233° (*C.* 1901 [2] 1160).
- 4) 3-Nitrophenylimid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 219° (*C.* 1901 [2] 1159).
- 5) 3-Nitrophenylimid d. 4-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 243° (*C.* 1901 [2] 1160).
- 6) 4-Nitrophenylimid d. 3-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 249° (*C.* 1901 [2] 1159).
- 7) 4-Nitrophenylimid d. 4-Nitrobenzol-1, 2-Dicarbonsäure. Sm. 251 bis 253° (*C.* 1901 [2] 1160).
- $C_{14}H_7O_6Br$  1) ?-Brom-1, 2, 3, 6-Tetraoxy-9, 10-Anthrachinon (*C.* 1901 [2] 1242).
- 2) ?-Brom-1, 2, 3, 7-Tetraoxy-9, 10-Anthrachinon (*C.* 1901 [2] 1242).
- $C_{14}H_7O_7N$  \*1)  $\alpha$ -4-Nitro-1, 2, 3-Trioxy-9, 10-Anthrachinon (*M.* 22, 718).
- \*2)  $\beta$ -4-Nitro-1, 2, 3-Trioxy-9, 10-Anthrachinon (*M.* 22, 721).
- \*3) 4-Pseudonitro-1, 2, 3-Trioxy-9, 10-Anthrachinon. Pyridinsalz (*M.* 22, 724).
- 7) 4- oder 8-Nitro-1, 5, 8- oder 1, 4, 5-Trioxy-9, 10-Anthrachinon (*C.* 1901 [2] 1189).
- $C_{14}H_8ON_2$  2) Cumarophenazin. Sm. 168° (*B.* 34, 1110, 2294).
- $C_{14}H_8O_2Cl_2$  3)  $\alpha\beta$ -Diketo- $\alpha$ -Di[4-Chlorphenyl]äthan. Sm. 200° (*R.* 21, 19 *C.* 1902 [1] 1013).
- $C_{14}H_8O_2Cl_4$  2)  $\alpha\beta$ -Di[3, 5-Dichlor-4-Oxyphenyl]äthen. Sm. 239° (*J. pr.* [2] 59, 236). — \*II, 605.
- $C_{14}H_8O_2Cl_6$  1)  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3, 5-Dichlor-4-Keto-1, 4-Dihydrophenyl]äthan. (*J. pr.* [2] 59, 235). — \*II, 606.
- $C_{14}H_8O_3Br_2$  6) 3, 10- oder 4, 10-Dibrom-1, 2, 9-Trioxyanthracen (*C.* 1901 [1] 601). — \*II, 698.

- $C_{14}H_8O_4N_2$  \*13) Phenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 136—137° (*C.* 1901 [2] 1159).
- \*14) Phenylimid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 194° (*C.* 1901 [2] 1159).
- 15) 4-Nitro-1-Amido-9,10-Anthrachinon. Sm. 290—295° (*C.* 1901 [2] 1219).
- 16) Monooxim d. 3-Nitro-9,10-Phenanthrenchinon. Sm. 240° (*B.* 35, 3120 *C.* 1902 [2] 1212).
- $C_{14}H_8O_4Br_2$  9) *p*-Dibrom-1,2,6,9-Tetraoxyanthracen (Dibromdesoxyflavopurpurin) (*C.* 1901 [1] 601).
- 10) *p*-Dibrom-1,2,7,9-Tetraoxyanthracen (Dibromdesoxyanthrapurpurin) (*C.* 1901 [1] 601).
- $C_{14}H_8O_5N_4$  \*1) 3,5-Di[3-Nitrophenyl]-1,2,4-Oxdiazol. Sm. 147,5—149,5° (*B.* 34, 2029).
- $C_{14}H_8O_5S$  2) 9,10-Phenanthrenchinon-3-Sulfonsäure. K, Ba + 2 $\frac{1}{2}$ H<sub>2</sub>O (*A.* 321, 341 *C.* 1902 [2] 61).
- $C_{14}H_8O_6N_2$  4) 2,7-Dinitro-9,10-Dioxyphenanthren. Sm. 274° u. Zers. (*B.* 35, 3126 *C.* 1902 [2] 1213).
- 5) *p*-Dinitro-9,10-Dioxyphenanthren. Sm. 201° (*B.* 35, 3128 *C.* 1902 [2] 1213).
- $C_{14}H_8O_6N_4$  4) 4,8-Dinitro-1,5-Diamido-9,10-Anthrachinon (D.R.P. 127780 *C.* 1902 [1] 337).
- 5) 4,5-Dinitro-1,8-Diamido-9,10-Anthrachinon. Sm. oberh. 300° (D.R.P. 127780 *C.* 1902 [1] 338).
- 6) Dinitrodiamido-9,10-Anthrachinon (D.R.P. 126676 *C.* 1902 [1] 86).
- $C_{14}H_8O_7N_2$  \*4) Anhydrid d. 3-Nitrobenzol-1-Carbonsäure. Sm. 47° (*B.* 34, 185).
- 8) Anhydrid d. 4-Nitrobenzol-1-Carbonsäure. Sm. 189—190° (186°) (*A.* 314, 305 Ann.; *R.* 15, 362). — \*II, 774.
- $C_{14}H_8O_8N_2$  \*2) 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 248° (*B.* 34, 2183).
- 6) Acetat d. *p*-Dinitro-3-Oxy-9,10-Phenanthrenchinon. Sm. 263—265° (*A.* 322, 158 *C.* 1902 [2] 282).
- 7) Di[3-Nitrophenylester] d. Oxalsäure. Sm. 213° (*B.* 35, 3451 *C.* 1902 [2] 1303).
- 8) Di[4-Nitrophenylester] d. Oxalsäure. Sm. 258° u. Zers. (*B.* 35, 3438 *C.* 1902 [2] 1303; *B.* 35, 3451 *C.* 1902 [2] 1304).
- $C_{14}H_8O_8N_4$  \*1)  $\alpha\beta$ -Di[2,4-Dinitrophenyl]äthen. Sm. 265° (*M.* 23, 547 *C.* 1902 [2] 741).
- $C_{14}H_8O_8N_6$  C 43,3 — H 2,1 — O 33,0 — N 21,6 — M. G. 388.
- 1) Di[2,4-Dinitrobenzyliden]hydrazin. Sm. 246° (*B.* 35, 1233 *C.* 1902 [1] 1000).
- $C_{14}H_8O_8S$  3) 1,2,3-Trioxo-9,10-Anthrachinon-4-Sulfonsäure. Na (*C.* 1901 [2] 1139).
- $C_{14}H_8O_{12}S_2$  1) 1,4,5,8-Tetraoxy-9,10-Anthrachinon-*p*-Disulfonsäure (*C.* 1901 [2] 1189).
- $C_{14}H_8N_2Br_2$  1) Nitril d.  $\alpha$ -[2,4-Dibromphenyl]imido- $\alpha$ -Phenylelessigsäure. Sm. 141° (*B.* 35, 3335 *C.* 1902 [2] 1193).
- $C_{14}H_9ON_3$  \*2) 3-Benzoyl-1,2,4-Benzotriazin. Sm. 114° (*J. pr.* [2] 65, 146 *C.* 1902 [1] 1002).
- $C_{14}H_9O_2N$  \*3) 3-Nitrophenanthren. Sm. 170—171° (*B.* 34, 3532).
- \*5) 9-Nitroanthracen (*B.* 34, 221; D.R.P. 127399 *C.* 1902 [1] 235).
- \*6) 9-Oximido-10-Keto-9,10-Dihydroanthracen. Sm. 224° u. Zers. (*A.* 323, 232 *C.* 1902 [2] 802).
- \*8) 1-Amido-9,10-Anthrachinon (*C.* 1901 [2] 307).
- \*10) 2-Amido-9,10-Phenanthrenchinon. Sm. oberh. 320° (*A.* 321, 338 *C.* 1902 [2] 61).
- \*11) 2-Benzoylanthranil. Sm. 122—123° (*A.* 324, 126 *C.* 1902 [2] 1253; *B.* 35, 3483 *C.* 1902 [2] 1318).
- \*18) Phenylimid d. Benzol-1,2-Carbonsäure. Sm. 203° (*Am.* 26, 455).
- \*23) 9-Nitrophenanthren. Sm. 116—117° (*B.* 34, 1461).
- 25) 3-Amido-9,10-Phenanthrenchinon. Sm. 254° (*A.* 321, 338 *C.* 1902 [2] 61).
- 26) Amid d. 9-Ketofluoren-1-Carbonsäure. Sm. 229—230° (*M.* 23, 891 *C.* 1902 [2] 1472).
- $C_{14}H_9O_2N_5$  C 66,9 — H 3,6 — O 12,7 — N 16,7 — M. G. 251.



- $C_{14}H_9O_2N_3$  1) Nitril d.  $\alpha$ -Phenylimido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 130° (B. 34, 500). — \*II, 942.  
 2) Nitril d.  $\alpha$ -[3-Nitrophenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 120° (B. 35, 3338 C. 1902 [2] 1193).  
 3) Nitril d.  $\alpha$ -[4-Nitrophenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 140° (B. 35, 3339 C. 1902 [2] 1193).  
 4) Nitril d. 2,6-Diketo-4-[3-Methylphenyl]-1,2,3,6-Tetrahydropyridin-3,5-Dicarbonsäure.  $NH_4$ , Cu +  $6H_2O$ , Ag (C. 1902 [2] 699).
- $C_{14}H_9O_3Cl$  \*2) Chlorid d. 2-Benzoylbenzol-1-Carbonsäure (M. 22, 788).  
 $C_{14}H_9O_3N$  15) 9-Oximidofluoren-1-Carbonsäure. Sm. 230° u. Zers. (M. 23, 892 C. 1902 [2] 1472).  
 16) Amid d. Naphtaronylessigsäure. Sm. 265° u. Zers. (Soc. 81, 425 C. 1902 [1] 999).
- $C_{14}H_9O_3N_3$  7) 3-Oxy-2-[2-Nitrophenyl]-1,4-Benzdiazin. Sm. 295° (B. 34, 4008 C. 1902 [1] 204).
- $C_{14}H_9O_3Cl$  2) p-Chlor-1,2,9-TRIOXYANTHRACEN (Chlordesoxalizarin) (C. 1901 [1] 601).  
 $C_{14}H_9O_3N$  \*2)  $\alpha\beta$ -Diketo- $\beta$ -[4-Nitrophenyl]- $\alpha$ -Phenyläthan. Sm. 138—139° (B. 34, 3904; G. 31, [1] 263).  
 \*6) 1-Amido-2,3-Dioxy-9,10-Anthrachinon (M. 22, 732).  
 12) 3-Nitro-9,10-Dioxyphenanthren. Sm. 222—223° (B. 35, 3125 C. 1902 [2] 1212).  
 13) Acetat d. B-I-Oxybenzolazoxindon. Sm. 225—226° (B. 35, 2820 C. 1902 [2] 999).
- $C_{14}H_9O_4Cl$  1) Chlorformiat d. 2-Oxybenzol-1-Carbonsäurephenylester (Chlorameisensäuresalolester). Sm. 90—91° (C. 1901 [1] 653). — \*II, 889.
- $C_{14}H_9O_5N_3$  2) Aldehyd d. p-Nitroazoxylbenzol-4,4'-Dicarbonsäure. Sm. 171 bis 172° (Am. 28, 43 C. 1902 [2] 701).
- $C_{14}H_9O_6N_3$  5) 2,4,2'-Trinitro- $\alpha\beta$ -Diphenyläthen. Sm. 184—195° (B. 34, 2848).  
 6) 2,4,3'-Trinitro- $\alpha\beta$ -Diphenyläthen. Sm. 183—184° (C. 1901 [2] 1030; B. 34, 2847).  
 7) 2,4,4'-Trinitro- $\alpha\beta$ -Diphenyläthen. Sm. 240° (C. 1901 [2] 1030; B. 34, 2846).  
 8) Benzoat d. 2,4-Dinitrobenzaloxim. Sm. 165—166° (B. 35, 1267 C. 1902 [1] 1102; M. 23, 559 C. 1902 [2] 742).  
 C 48,4 — H 2,6 — O 36,9 — N 12,1 — M. G. 347.
- $C_{14}H_9O_5N_3$  1) 4,6-Dinitrodiphenylamin-2,2'-Dicarbonsäure. Sm. 153—159°. Ba (M. 22, 396).
- $C_{14}H_9N_3Br$  2) Nitril d.  $\alpha$ -[4-Bromphenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 118° (B. 35, 3335 C. 1902 [2] 1193).
- $C_{14}H_9N_3Cl$  \*1) Chlorfluoravin. Sm. oberh. 360° (A. 319, 270 C. 1902 [1] 359).  
 $C_{14}H_9ClS_2$  1) 9-Anthracendithiochlorid. Sm. 212° (B. 34, 2767).  
 $C_{14}H_9ON_3$  21) 3- oder 5-Phenyl-5- oder 3-[4-Pyridyl]isoxazol. Sm. 165° (M. 22, 625).  
 22) 3-Oxy-2-Phenyl-1,4-Benzdiazin. Sm. 247° (B. 34, 4009 C. 1902 [1] 205).  
 23) Nitril d.  $\alpha$ -[4-Oxyphenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 146° (D.R.P. 121974; B. 35, 3348 C. 1902 [2] 1194).
- $C_{14}H_{10}OCl_2$  5) Aldehyd d. Di[4-Chlorphenyl]essigsäure. Sm. 149° (R. 21, 36 C. 1902 [1] 1014).
- $C_{14}H_{10}O_2N_3$  \*3) 1,5-Diamido-9,10-Anthrachinon (C. 1901 [2] 640).  
 \*4) p-Diamido-9,10-Anthrachinon (C. 1901 [2] 640).  
 \*31) Phenylamidoimid d. Benzol-1,2-Dicarbonsäure. Sm. 178—179° (B. 35, 2300 C. 1902 [2] 375).  
 37) 1,4-Diamido-9,10-Anthrachinon (D.R.P. 135561 C. 1902 [2] 1232).  
 38) 2,6-Diamido-9,10-Anthrachinon (D.R.P. 135561 C. 1902 [2] 1232).  
 39) 3-Oxy-2-[2-Oxyphenyl]-1,4-Benzdiazin. Sm. 296° (B. 34, 1110, 2296).  
 40) Aldehyd d. Azobenzol-4,4'-Dicarbonsäure. Sm. 237—238° (C. r. 134, 1360 C. 1902 [2] 195).
- $C_{14}H_{10}O_2Br_2$  2) p-Dibrom-2'-Oxy-4-Methyldiphenylketon. Sm. 132,5° (B. 35, 2813 C. 1902 [2] 1117).
- $C_{14}H_{10}O_2N_3$  \*6) Aldehyd d. Azoxybenzol-4,4'-Dicarbonsäure. Sm. 194—195,5° (B. 35, 2438 C. 1902 [2] 446; Am. 28, 34 C. 1902 [2] 701).  
 11) 3-Nitro-9- oder 10-Amido-10- oder 9-Oxyphenanthren. HCl (B. 35, 3131 C. 1902 [2] 1213).

- $C_{14}H_{10}O_3N_4$  5) Nitril d.  $\alpha$ -[3-Nitrophenyl]nitrosamido- $\alpha$ -Phenylelessigsäure. Sm. 90 bis 91° (B. 35, 3338 C. 1902 [2] 1193).
- $C_{14}H_{10}O_3Cl_2$  3)  $\alpha$ -Oxy- $\alpha$ -Di[4-Chlorphenyl]essigsäure. Sm. 101,75°. Ag +  $C_6H_6$  (R. 21, 21 C. 1902 [1] 1013).
- $C_{14}H_{10}O_3Br_2$  2) Benzoat d. 3,5-Dibrom-1-Oxy-4-Keto-1-Methyl-1,4-Dihydrobenzol. Sm. 204° (B. 35, 463 C. 1902 [1] 646).
- $C_{14}H_{10}O_3S$  \*5) Phenanthren-3-Sulfonsäure. K, Ba +  $2\frac{1}{2}H_2O$ , Pb +  $3H_2O$  (B. 34, 4004 C. 1902 [1] 202; A. 321, 266 C. 1902 [2] 56).
- \*6) Phenanthren-9-Sulfonsäure. K, Ba +  $2\frac{1}{2}H_2O$  (A. 321, 270 C. 1902 [2] 57).
- 9) Phenanthren-2-Sulfonsäure.  $NH_4$ , K, Pb +  $2H_2O$  (B. 34, 4004 C. 1902 [1] 202; A. 321, 273 C. 1902 [2] 57).
- $C_{14}H_{10}O_4N_2$  \*1)  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthen. Sm. 105–107° (B. 34, 623; C. 1901 [1] 1051; D.R.P. 126798 C. 1902 [1] 82).
- \*18) Azobenzol-2,2'-Dicarbonsäure. Sm. 237° u. Zers. (B. 34, 4133 C. 1902 [1] 193).
- \*20) Azobenzol-3,3'-Dicarbonsäure. (A. 320, 137; B. 34, 4134 C. 1902 [1] 193).
- \*21) Azobenzol-4,4'-Dicarbonsäure. Sm. noch nicht bei 280° (A. 320, 135; B. 34, 4134 C. 1902 [1] 193).
- 24) isom.  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthen. Sm. 186–187° (B. 34, 621; C. 1901 [1] 1051; D.R.P. 126798 C. 1902 [1] 82).
- 25) 2,4-Dinitro- $\alpha\beta$ -Diphenyläthen. Sm. 139–140° (C. 1901 [2] 1030; B. 34, 2843).
- 26) Phenylnitrosomonamid d. Benzol-1,2-Dicarbonsäure (Am. 26, 458).
- $C_{14}H_{10}O_4N_4$  \*5) Di[2-Nitrobenzyliden]hydrazin. Sm. 204,5° (J. pr. [2] 66, 17 C. 1902 [2] 584).
- \*7) Di[4-Nitrobenzyliden]hydrazin. Sm. 304,5° (J. pr. [2] 66, 17 C. 1902 [2] 583).
- 8) 2,3-Anhydroderivat d.  $\alpha$ -[4-Nitrophenyl]imido- $\alpha$ -[5-Nitro-2-Amido-3-Oxymethylphenyl]methan. Sm. 243–246° u. Zers. (B. 35, 744 C. 1902 [1] 754).
- $C_{14}H_{10}O_4Hg$  1) Quecksilberdiphenyl-2,2'-Dicarbonsäure (o-Merkurodibenzoësäure). Sm. 165°. Na<sub>2</sub>, K<sub>2</sub>, Ca (C. 1901 [1] 454; 1901 [2] 108; G. 32 [2] 293 C. 1902 [2] 1454).
- $C_{14}H_{10}O_5N_2$  \*11) Azoxybenzol-2,2'-Dicarbonsäure. Sm. 248° (B. 35, 2000 C. 1902 [1] 1190).
- 20) 2-Phenylamid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 180° C. 1901 [2] 1159).
- 21) Phenylmonamid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 181° (C. 1901 [2] 1159).
- $C_{14}H_{10}O_5N_2$  4) 2-Nitro-4-Methylphenylester d. 3-Nitrobenzol-1-Carbonsäure. Sm. 143–144° (B. 28, 1129). — \*II, 772.
- 5) 2-Nitro-4-Methylphenylester d. 4-Nitrobenzol-1-Carbonsäure. Sm. 132–133° (B. 28, 1128). — \*II, 774.
- $C_{14}H_{10}O_6S_2$  5) Anthracen-2,7-Disulfonsäure. Ba +  $4H_2O$  (D.R.P. 73961, 76280). — \*II, 122.
- $C_{14}H_{10}O_7N_6$  \*1) 2,4,6-Trinitrophenyläther d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan. Zers. bei 140° (B. 35, 3271 C. 1902 [2] 1251).
- $C_{14}H_{10}NCl$  5) Chlor-2-Phenylindol. Sm. 196° (D.R.P. 127245 C. 1902 [1] 154, 155).
- $C_{14}H_{10}N_2Cl_2$  2) Di[2-Chlorbenzyliden]hydrazin. Sm. 143,5° (B. 34, 849).
- 3) Nitril d. 3-Chlorphenylamido-4-Chlorphenylelessigsäure. Sm. 88° (J. pr. [2] 65, 268 C. 1902 [1] 1214).
- $C_{14}H_{10}N_2Br_2$  \*1) Nitril d.  $\alpha$ -[2,4-Dibromphenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 92° (B. 35, 3335 C. 1902 [2] 1193).
- $C_{14}H_{11}ON$  \*17) 5-Keto-10-Methyl-5,10-Dihydroakridin. Sm. 201° (B. 35, 2536 C. 1902 [2] 458).
- 23) 2-Amido-3-Oxyphenanthren. Sm. 159–161° u. Zers. HCl (A. 321, 295 C. 1902 [2] 58).
- 24) 9-Amido-10-Oxyphenanthren (Morphigenin). Sm. 417°. HCl (C. 1902 [1] 1302; B. 35, 2733 C. 1902 [2] 643; B. 35, 3044 C. 1902 [2] 1259; C. 1902 [1] 1302; B. 35, 1310 C. 1902 [2] 1213).
- 25) 9-Keto-10-Methyl-9,10-Dihydrophenanthridin. Sm. 108° (B. 35, 2535 C. 1902 [2] 457).

- $C_{14}H_{11}ON_3$  \*4) 3-Oxy-1,5-Diphenyl-1,2,4-Triazol. Sm. 290° (*Am.* 27, 263 *C.* 1902 [1] 1298).
- 14) 5-Keto-1-Phenyl-3-[2-Pyridyl]-4,5-Dihydropyrazol. Sm. 179° (*B.* 34, 4239 *C.* 1902 [1] 208).
- 15) 5-Keto-1-Phenyl-3-[4-Pyridyl]-4,5-Dihydropyrazol. Sm. 215° (*B.* 34, 4250 *C.* 1902 [1] 209).
- 16) 2-Benzoylimido-2,3-Dihydrobenzimidazol (Benzoylphenylenguanidin). Sm. 237° (*Am.* 26, 415).
- 17) 4-Keto-3-[2-Methylphenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 166° (*J. pr.* [2] 63, 280).
- 18) 4-Keto-3-[3-Methylphenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 150° (*J. pr.* [2] 63, 281).
- 19) 4-Keto-3-[4-Methylphenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 143° (*J. pr.* [2] 63, 281).
- 20) 8-Keto-7-Methyl-5-Phenyl-7,8-Dihydro-1,6,7-Benztriazin. Sm. 173 bis 175° (*M.* 22, 845).
- 21) Nitril d.  $\alpha$ -Phenylnitrosamido- $\alpha$ -Phenylelessigsäure. Sm. 55° (*B.* 35, 3330 *C.* 1902 [2] 1192).
- $C_{14}H_{11}O_3N$  27) Nitrodihydrophenanthren. Zers. bei 100° (D.R.P. 129990).
- 28) 4- $[\alpha\gamma$ -Diketo- $\gamma$ -Phenylpropyl]pyridin. Sm. 80°. HCl, (2HCl, PtCl<sub>4</sub>) (*M.* 22, 622).
- 29) Methyläther d. 3-Oxy-1-Phenylbenzoxazol. Sm. 65—66° (*B.* 35, 1481 *C.* 1902 [1] 1209).
- 30) Phenyläther d. 1-Oxymethylbenzoxazol. Sm. 146-147° (*J. pr.* [2] 64, 294).
- 31)  $\beta$ -[6-Phenyl-2-Pyridyl]akrylsäure. (2HCl, PtCl<sub>4</sub>) (*B.* 35, 2785 *C.* 1902 [2] 994).
- 32) Verbindung (aus Chinaldin u. Bernsteinsäureanhydrid). Sm. 108° (*A.* 315, 356).
- $C_{14}H_{11}O_3N_3$  \*11) Nitril d.  $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 128° (*B.* 35, 3338 *C.* 1902 [2] 1193).
- 17) 2-Phenylhydrazon-1-Oximido-1,2-Dihydrobenzofuran. Sm. 155 bis 156° (*B.* 35, 1645 *C.* 1902 [1] 1361).
- 18) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Phenylhexahydropyridin. Sm. 270—280° (*C.* 1901 [1] 581).
- 19) 5-Keto-3-Oxy-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 163°. Na, Ca (*B.* 34, 2336).
- 20) Nitril d.  $\alpha$ -[3-Nitrophenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 109° (*B.* 35, 3337 *C.* 1902 [2] 1193).
- 21) Nitril d. 4-Nitro-1-Phenylamidomethylbenzol-3-Carbonsäure. Sm. 135° (*B.* 34, 3374 Anm.).
- 22) Verbindung (aus d. Verb.  $C_{12}H_{13}ON_3S$ ). Sm. 161—162° (*B.* 34, 341).
- $C_{14}H_{11}O_3Cl$  5) Benzoat d.  $\beta$ -Chlor-3-Oxy-1-Methylbenzol. Sm. 86—87° (D.R.P. 93694). — \*II, 718.
- $C_{14}H_{11}O_3Br$  8) Bromoxymethyldiphenylketon ( $CH_3:OH:Br = 1:2:?$ ). Sm. 130 bis 131° (*G.* 32 [2] 273 *C.* 1902 [2] 1382).
- $C_{14}H_{11}O_3N$  \*20) 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 181° (*B.* 35, 3484 *C.* 1902 [2] 1318).
- \*32) Phenylmonamid d. Benzol-1,2-Dicarbonsäure. Ba (*Am.* 26, 457).
- 40) 4-Phenylamidobenzol-1-Ketocarbonsäure (*C.* 1901 [1] 238).
- 41) 1-N-Phenylbenzaldoxim-2-Carbonsäure + H<sub>2</sub>O. Zers. 125° (*B.* 34, 1019).
- 42) Methylster d. 3-Benzoylpyridin-2-Carbonsäure. Sm. 91° (*M.* 22, 846).
- $C_{14}H_{11}O_3N_3$  \*1)  $\beta$ -[2-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 141,5 bis 142,5° (*B.* 34, 2013).
- 10) isom.  $\beta$ -[2-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 113 bis 117° (*B.* 34, 2013).
- 11)  $\beta$ -[3-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 139—140° (*B.* 34, 2015).
- 12) isom.  $\beta$ -[3-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 149 bis 152° (*B.* 34, 2015).
- 13)  $\beta$ -[4-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 199—200° (*B.* 34, 2017).
- $C_{14}H_{11}O_3N_5$  2) 4-Phenylnitrosamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 123° (*C.* 1901 [1] 935).

- $C_{14}H_{11}O_3Cl$  2) 1-Methyläther d. 6-Chlor-1,3,6-Trioxypentanthren. Sm. 162° (B. 34, 1555).
- $C_{14}H_{11}O_4N$  24) Amid d. 2-[2-Oxybenzoxyl]benzol-1-Carbonsäure. Sm. 203° (D.R.P. 111656 C. 1900 [2] 612). — \*II, 893.
- $C_{14}H_{11}O_4N_3$  27) 2-[2,4-Dinitrobenzyliden]amido-1-Methylbenzol. Sm. 153,5° (B. 35, 2708 C. 1902 [2] 637).
- 28) 4-[2,4-Dinitrobenzyliden]amido-1-Methylbenzol. Sm. 151° (B. 35, 1267 C. 1902 [1] 1102; M. 23, 557 C. 1902 [2] 742).
- 29) 4-Nitrobenzylidenderivat d. 2-Hydroxylamidobenzaldoxim. Sm. 178° (B. 34, 4027 C. 1902 [1] 117).
- $C_{14}H_{11}O_5N$  30) Diazoamidobenzol-2,2'-Dicarbonsäure. Sm. 123° (C. 1902 [2] 938).
- 6) 4-Methyläther d. 3-Nitroso-2,4,6-Trioxydiphenylketon (Nitrosocotoïn). Sm. 153—154° (M. 22, 999 C. 1902 [1] 200).
- 7) 2-Methoxyphenylester d. 4-Nitrobenzol-1-Carbonsäure. Sm. 101 bis 102° (D.R.P. 67923; H. 32, 607). — \*II, 774.
- 8) 3-Benzot-1-Methyläther d. 4-Nitro-1,3-Dioxybenzol. Sm. 95° (C. 1901 [2] 96).
- $C_{14}H_{11}O_5N_3$  17) 4-Nitrozobenzol-4'-Oxyessigsäure. Sm. 205°. Na (B. 34, 3938 C. 1902 [1] 117).
- 18) Methylester d. 5-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 132 bis 134° (Soc. 79, 52).
- $C_{14}H_{11}O_5Br$  1) Dimethylphthalidbromtetransäure. Sm. 178—179° u. Zers. (A. 322, 384 C. 1902 [2] 737).
- 2) Verbindung (aus Dimethyldihydrophtalidtetransäure). Sm. 178° u. Zers. (A. 315, 173).
- $C_{14}H_{11}O_6N_3$  5) Methyläther d. 4,5-Dinitro-2-Benzoylamido-1-Oxybenzol. Sm. 185 bis 186° (C. 1901 [2] 98).
- $C_{14}H_{11}O_6Cl$  1) Diacetat d. 3-Chlor-7,8-Dioxy-4-Methyl-1,2-Benzpyron. Sm. 197° (B. 34, 360).
- $C_{14}H_{11}O_7N_3$  4) 2,4'-Dinitro-4-Oxy-2-Methyldiphenylamin-5-Carbonsäure (D.R.P. 133940 C. 1902 [2] 775).
- 5) 2,4'-Dinitro-4-Oxy-3-Methyldiphenylamin-5-Carbonsäure (D.R.P. 133940 C. 1902 [2] 775).
- $C_{14}H_{11}O_9N_3$  C 46,0 — H 3,0 — O 39,5 — N 11,5 — M. G. 365.
- 1) Aethylester d. Oxyessig-1,2,2-Trinitro-2-Naphtyläthersäure. Sm. 227—228° u. Zers. (B. 34, 3198). — \*II, 524.
- $C_{14}H_{11}NS$  5) Diphenylmethylenföhl. Sm. 61°; Sd. 222—225° (Am. 26, 353).
- 6) Methyläther d. 5-Merkaptoakridin. Sm. 113—114°. (2HCl, PtCl<sub>4</sub>), Pikrat (J. pr. [2] 64, 481 C. 1902 [1] 125).
- $C_{14}H_{11}N_2Cl$  5)  $\alpha$ -Benzyliden- $\beta$ -[3-Chlorbenzyliden]hydrazin (B. 35, 3239 C. 1902 [2] 1045).
- 6) 3-Chlor-2-Benzylindazol. Sm. 47,5° (B. 35, 2318 C. 1902 [2] 453).
- 7) Nitril d. Phenylamido-4-Chlorphenylessigsäure. Sm. 112° (J. pr. [2] 65, 269 C. 1902 [1] 1214).
- $C_{14}H_{11}N_3Br$  5) Nitril d.  $\alpha$ -[4-Bromphenyl]amido- $\alpha$ -Phenylessigsäure. Sm. 99° (B. 35, 3335 C. 1902 [2] 1193).
- $C_{14}H_{11}N_3S$  \*3) 5-Phenylimido-2-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 199 bis 200°. Ag (Soc. 79, 60).
- 6) 5-Merkapto-1,3-Diphenyl-1,2,4-Triazol. Sm. 248—249° (Am. 27, 268 C. 1902 [1] 1299).
- 7) 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 187—187,5° (Am. 27, 263 C. 1902 [1] 1298).
- $C_{14}H_{11}N_3S_2$  2) 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 177—178° (B. 34, 308).
- 3) 5-Merkapto-2-Phenylimido-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 171—172° (B. 34, 312 334).
- 4) 5-Phenylamido-2-Thiocarbonyl-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 188—189° (B. 34, 335).
- $C_{14}H_{12}ON_2$  \*3) s-Benzoylbenzylidenhydrazin. Sm. 204—205° (A. 323, 274 C. 1902 [2] 1102).
- \*8)  $\beta$ -Phenylhydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 138° (B. 34, 2009).
- \*31) Benzaldoximhydrid. Sm. 209—210° (A. 323, 268 C. 1902 [2] 1102).
- 32) 3,9- oder 3,10-Diamido-10- oder 9-Oxyphenanthren. Sm. 264 bis 265° (B. 35, 3132 C. 1902 [2] 1214).

- $C_{14}H_{12}ON_2$  33) isom.  $\beta$ -Phenylhydrazon- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 114–117° (B. 34, 2010).  
 34)  $\alpha$ -Imido- $\alpha$ -[2-Oxybenzyliden]amido- $\alpha$ -Phenylmethan. Sm. 185°. HCl, (2HCl, PtCl<sub>4</sub>), Ag (B. 34, 3031).  
 35) Azoxydihydrostilben (B. 32, 2920). — \*II, 55.  
 36) 3-Keto-2-Benzyl-1,3-Dihydroindazol. Sm. 180,5° (B. 35, 2317 C. 1902 [2] 453).  
 37) Succinimidehinaldin. Sm. 128°; Zers. bei 220°. HCl, (2HCl, PtCl<sub>4</sub>), H<sub>2</sub>SO<sub>4</sub> (A. 315, 355).  
 38) Nitril d.  $\alpha$ -[4-Oxyphenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 175–180° (B. 35, 3347 C. 1902 [2] 1194).  
 39) Amid d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylelessigsäure. Sm. 141° (B. 34, 499).
- $C_{14}H_{12}ON_4$  11) 3-Phenylamido-5-Keto-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 212–213° (B. 35, 1720 C. 1902 [2] 30).
- $C_{14}H_{12}OS$  \*3) 4-Methylphenylester d. Benzolthiolcarbonsäure. Sm. 75° (Bl. [3] 27, 690 C. 1902 [2] 447).
- $C_{14}H_{12}O_2N_2$  \*7) Glyoxim-N-Phenyläther. Sm. 182–183° (B. 35, 1883 C. 1902 [2] 33).  
 \*20) Di[2-Oxybenzyliden]hydrazin. Sm. 213–214° (B. 34, 4299 C. 1902 [1] 304).  
 \*21) s-Dibenzoylhydrazin. Sm. 233° (B. 34, 189).  
 \*50) Amid d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 214–215° u. Zers. (B. 35, 3484 C. 1902 [2] 1318).  
 67)  $\alpha$ -Phenyl- $\alpha$ -Benzoylharnstoff. Sm. 146° (Ann. 26, 232).  
 68) 4-Nitro-2-Amido- $\alpha$ - $\beta$ -Diphenyläthen. Sm. 142–143°. HCl (B. 34, 2845).  
 69) 2-Nitro-4-Amido- $\alpha$ - $\beta$ -Diphenyläthen. Sm. 110–111°. HCl (B. 34, 2846).  
 70) 2,2-Di[Formylamido]biphenyl. Sm. 137° (B. 34, 3330).  
 71) Benzylidenderivat d. 2-Hydroxylamidobenzaldoxim. Sm. 172 bis 172,5° (B. 34, 4027 C. 1902 [1] 117).  
 72) Benzylidenderivat d. Verb. C<sub>7</sub>H<sub>5</sub>O<sub>2</sub>N<sub>2</sub>. Sm. 164° u. Zers. (B. 34, 3791 C. 1902 [1] 41).  
 73)  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthen. Sm. 134°. HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>) (B. 35, 2792 C. 1902 [2] 995).  
 74)  $\alpha$ -Phenyl- $\beta$ -Benzylidenhydrazin- $\alpha$ -Carbonsäure (2-Benzylidenhydrazidobenzol-1-Carbonsäure). Sm. 227–228° (B. 35, 2315 C. 1902 [2] 452).  
 75) Aldehyd d. 4-Oxy-2-Methylazobenzol-5-Carbonsäure. Sm. 143 bis 144° (B. 34, 2104).  
 76) Aldehyd d. 4-Oxy-3-Methylazobenzol-5-Carbonsäure. Sm. 76° (B. 34, 2099).
- $C_{14}H_{12}O_2N_4$  \*3) Diphenylurazin. Ag (B. 35, 561 C. 1902 [1] 635).  
 \*5)  $\alpha$ -Phenylazo- $\alpha$ -Phenylhydrazonessigsäure. Sm. 158,5–164°. Na, K, Ag (J. pr. [2] 65, 127 C. 1902 [1] 995).  
 10) 1,4,5,8-Tetraamido-9,10-Anthrachinon (D.R.P. 127780 C. 1902 [1] 338).  
 11) Tetraamido-9,10-Anthrachinon (D.R.P. 126676 C. 1902 [1] 86).  
 12) 4-Phenylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol (Diphenylurazin). Sm. 264° (B. 21, 1225; 32, 16; 34, 2317; A. 263, 282; J. pr. [2] 60, 237; C. 1901 [1] 935). — IV, 676.
- $C_{14}H_{12}O_2Cl_2$  3)  $\alpha$ - $\beta$ -Dioxy- $\alpha$ - $\beta$ -Di[4-Chlorphenyl]äthan. Sm. 151° (B. 21, 17 C. 1902 [1] 1013).
- $C_{14}H_{12}O_2S$  2) 2-Methylphenylester d. 2-Oxybenzol-1-Thiolcarbonsäure. Sm. 36° (D.R.P. 68111). — \*II, 888.
- $C_{14}H_{12}O_2N_2$  \*20)  $\alpha$ -Phenylhydrazon- $\alpha$ -[2-Oxyphenyl]essigsäure. Sm. 148° (B. 35, 1646 Ann. C. 1902 [1] 1361).  
 54)  $\alpha$ -Nitro- $\beta$ -Nitroso- $\alpha$ - $\beta$ -Diphenyläthan (Stilbennitrosit). Sm. 195 bis 197° u. Zers. (B. 34, 624; D.R.P. 126798 C. 1902 [1] 82).  
 55) 2-[2-Amidobenzoyl]amidobenzol-1-Carbonsäure. Sm. 203°. K (B. 35, 3478 C. 1902 [2] 1317).  
 56) Azobenzol-4-Oxyessigsäure. Sm. 193°. Na (B. 34, 3936 C. 1902 [1] 117).  
 57) Äthylester d. Benzo- $\beta$ -Ketopentamethylenazinmethylsäure (Bl. [3] 25, 713).



- $C_{14}H_{12}O_3N_2$  58) Acetat d. 2-Oxyazoxybenzol. Sm. 56—57° (*B.* 35, 1617 *C.* 1902 [1] 1326).  
 59) Acetat d. 4-Oxyazoxybenzol. Sm. 88,5—89,5° (*B.* 35, 1611 *C.* 1902 [1] 1325).  
 60) Benzylidenhydrazid d. 3-Oxyphenylkohlenensäure. Sm. 175° (*A.* 317, 197).  
 61) Benzylidenhydrazid d. 4-Oxyphenylkohlenensäure. Sm. 215° (*A.* 317, 202).
- $C_{14}H_{12}O_3N_4$  5) 2,2'-Di[Oximidomethyl]azoxybenzol. Sm. 210,5—211° (*B.* 34, 4021 *C.* 1902 [1] 117).  
 6) Verbindung (aus Diphenylcarbodiazin) (*Bl.* [3] 25, 378).
- $C_{14}H_{12}O_4N_2$  \*1)  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthan. Sm. 235—236° u. Zers. (*B.* 34, 626, 3536).  
 \*2)  $\alpha\beta$ -Di[2-Nitrophenyl]äthan. Sm. 121° (*Soe.* 79, 1275).  
 48) isom.  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthan. Sm. 150—152° (*B.* 34, 3541).  
 49) isom.  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthan. Sm. 235—236° u. Zers. (*D.R.P.* 126798 *C.* 1902 [1] 82).  
 50) 2,2'-Dinitro-4,4'-Dimethylbiphenyl. Sm. 140° (*B.* 34, 3332; *B.* 34, 3804 *C.* 1902 [1] 44).  
 51) 2-[Methyl-3-Nitrobenzoyl]amido-1-Oxybenzol. Sm. 105° (*Ann.* 23, 36). — \*II, 773.  
 52) Methyläther d. 4-Nitro-2-Benzoylamido-1-Oxybenzol. Sm. 160 bis 161° (*C.* 1901 [2] 98).  
 53) Methyläther d. 5-Nitro-2-Benzoylamido-1-Oxybenzol. Sm. 149 bis 150° (*C.* 1901 [2] 98).  
 54) 4,8-Di[Acetylamido]-1,2-Naphtochinon. Sm. 240—245° u. Zers. (*B.* 34, 1230).  
 55) 2,8-Di[Acetylamido]-1,4-Naphtochinon. Sm. 225° (*B.* 34, 1230).  
 56) Acetat d. 1-Naphtyloxaminsäureoxyamid. Sm. 170° u. Zers.  $NH_4$ , Na (*Soe.* 79, 845).  
 57) Acetat d. 2-Naphtyloxaminsäureoxyamid. Sm. 172°.  $NH_4$ , Na (*Soe.* 79, 846).  
 58) Phenylamid d. 5-Nitro-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 208° (*M.* 22, 947 *C.* 1902 [1] 194).  
 59) 2-Oxybenzylidenhydrazid d. 3-Oxyphenylkohlenensäure. Sm. 185 bis 186° (*A.* 317, 198).  
 60) 2-Oxybenzylidenhydrazid d. 4-Oxyphenylkohlenensäure. Sm. 229 bis 230° (*A.* 317, 202).
- $C_{14}H_{12}O_4N_4$  21)  $\alpha$ -Phenylhydrazon- $\alpha$ -[3,5-Dinitrophenyl]äthan. Sm. 212° (*J. pr.* [2] 65, 293 *C.* 1902 [1] 1217).  
 22) 2,3-Anhydrid d.  $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Amido-3-Oxymethylphenyl]methan. Sm. 219—222° (*B.* 35, 744 *C.* 1902 [1] 754).  
 23) Methylester d. 3'-Nitrodiazobenzol-2-Carbonsäure. Sm. 167° (*J. pr.* [2] 63, 288).  
 24) Methylester d. 4'-Nitrodiazamidobenzol-2-Carbonsäure. Sm. 184° (*J. pr.* [2] 63, 290).  
 25) Amid d.  $\alpha$ -[3-Nitrophenyl]nitrosamido- $\alpha$ -Phenyllessigsäure. Sm. 156° (*B.* 35, 3338 *C.* 1902 [2] 1193).
- $C_{14}H_{12}O_5N_4$  9)  $\alpha$ -[4-Nitrophenyl]imido- $\alpha$ -[5-Nitro-2-Amido-3-Oxymethylphenyl]-methan. Sm. 207—208° (*B.* 35, 743 *C.* 1902 [1] 754).  
 10) Anilin + Nitril d. 3,5-Dinitro-2-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 156—158° (*B.* 35, 574 *C.* 1902 [1] 583).
- $C_{14}H_{12}O_5S$  3) Phenoxydimethylphenylketon-*p*-Sulfonsäure. Na + 2H<sub>2</sub>O, Ba + 4H<sub>2</sub>O (*B.* 35, 3564 *C.* 1902 [2] 1313).
- $C_{14}H_{12}O_7N_2$  1) Dimethyläther d. 3,5-Dinitro-2,2'-Dioxydiphenyläther. Sm. 119 bis 120° (*Ann.* 26, 368).
- $C_{14}H_{12}O_8Cl_2$  2) Benzol-1,4-Di[ $\beta$ -Chloräthyl- $\beta\beta$ -Dicarbonsäure]. Sm. 179° u. Zers.  $K_2$  (*B.* 34, 2786).  
 C 41,2 — H 2,9 — O 35,3 — N 20,6 — M. G. 408.
- $C_{14}H_{12}O_8N_6$  1) *p*-Tetranitro-4-Dimethylamido-4'-Oxydiphenylamin. Sm. 228° u. Zers. (*B.* 35, 3086 *C.* 1902 [2] 1116).
- $C_{14}H_{12}NCl$  10) 2-[4-Chlorbenzyliden]amido-1-Methylbenzol. Sm. 35,5° (*J. pr.* [2] 65, 264 *C.* 1902 [1] 1213).

- $C_{14}H_{12}NCl$  11) 3-[4-Chlorbenzyliden]amido-1-Methylbenzol. Sm. 32° (*J. pr.* [2] 65, 264 *C.* 1902 [1] 1213).  
 12) 4-[4-Chlorbenzyliden]amido-1-Methylbenzol. Sm. 125° (*J. pr.* [2] 65, 264 *C.* 1902 [1] 1213).
- $C_{14}H_{12}N_2Cl_2$  1) 2-Chlorbenzyliden-2-Chlorbenzylhydrazin. Sm. 83–84° (*B.* 34, 852).  
 2) 3,3'-Dichlor-2,2'-Dimethylazobenzol. Sm. 153–154° (*M.* 22, 490).
- $C_{14}H_{12}N_3S_2$  \*3) Phenylamid d. Dithiooxalsäure (*C.* 1902 [2] 121).
- $C_{14}H_{12}N_7S$  3) 5-Phenylimido-3-Merkapto-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 206°. K (*B.* 35, 1712 *C.* 1902 [2] 29).
- $C_{14}H_{12}N_4S_2$  2) 3-Hydrothiamido-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 130° (*B.* 34, 311).
- $C_{14}H_{12}ClJ$  1)  $\alpha$ -Chlor- $\beta$ -Jod- $\alpha$ - $\beta$ -Diphenyläthan. Sm. 131° u. Zers. (*C.* 1902 [1] 1402).
- $C_{14}H_{13}ON$  \*14)  $\beta$ -Amido- $\alpha$ -Keto- $\alpha$ - $\beta$ -Diphenyläthan. Sm. 109°. HCl, (HCl,  $SuCl_2 + H_2O$ ) (*B.* 35, 2740 *C.* 1902 [2] 645).  
 \*32) 4-Acetylamidobiphenyl. Sm. 170–171° (*J. pr.* [2] 63, 456).  
 \*36) Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[2-Pyridyl]äthen. Sm. 75°. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ) (*B.* 35, 2788 *C.* 1902 [2] 994).  
 \*37) Methoxyhydrat d. Phenanthridin. Sm. 109° (*B.* 35, 2535 *C.* 1902 [2] 457).  
 \*56) Phenylbenzimidomethyläther. Sd. 157–158°<sub>12</sub> (*See.* 81, 595 *C.* 1902 [1] 1055).  
 62) 2-Oxy-1-[2-Methylphenylimido]methylbenzol. Sm. 47–48° (*B.* 34, 833 Ann.).  
 63) Methyläther d. 4-Benzylidenamido-1-Oxybenzol. Sm. 142°. HCl (*B.* 34, 832).  
 64)  $\alpha$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[2-Pyridyl]propan (Phenyläthyl-2-Pyridylketon). Fl. (2HCl,  $PtCl_4$ ), Pikrat (*B.* 34, 4244 *C.* 1902 [1] 209).  
 65) 3,8-Dimethylphenoxazin<sup>p</sup> Sm. 179° (*A.* 322, 20 *C.* 1902 [2] 221).  
 66) 3,9-Dimethylphenoxazin. Sm. 204–205° (*B.* 34, 1623; *A.* 322, 19 *C.* 1902 [2] 221).  
 67) 4,9-Dimethylphenoxazin. Sm. 179° (*B.* 34, 1623).  
 68) Phenylamid d.  $\Delta^{24}$ -Norcaradien-7-Carbonsäure (Ph. d. Pseudo-phenylessigsäure). Sm. 141–142° (*B.* 34, 993). — \*II, 832.
- $C_{14}H_{13}ON_3$  \*1) Benzoylamidrazon. Sm. 152° (*J. pr.* [2] 65, 147 *C.* 1902 [1] 1002).  
 \*6) 6-Acetylamidoazobenzol. Sm. 144–146° (141°) (*B.* 34, 884; *B.* 35, 113 *C.* 1902 [1] 414).  
 21) Methyläther d. 2-[4-Oxyphenyl]-5- oder 6-Methyl-2,1,3-Benztriazol. Sm. 102–103° (*C. r.* 134, 607 *C.* 1902 [1] 874).  
 22) Amid d. Phenylamidophenylimidoessigsäure. Sm. 154–155° (*C.* 1900 [2] 929). — \*II, 207.  
 23)  $\alpha$ -Amido- $\alpha$ -Phenylamido- $\alpha$ -Benzoylimidomethan (Benzoylphenylguanidin). Sm. 90–91°. Pikrat (*Ann.* 26, 417).  
 24)  $\beta$ -Oximido- $\alpha$ -Phenylamido- $\alpha$ -Phenylimidoäthan. Sm. 131–132° (*D.R.P.* 113848 *C.* 1900 [2] 927; *D.R.P.* 113981 *C.* 1900 [2] 929). — \*II, 160.
- $C_{14}H_{13}O_2N$  \*61) Phenylamid d.  $\alpha$ -Oxyphenylessigsäure (*B.* 34, 2798).  
 \*62) Phenylamid d. Oxyessigphenyläthersäure. Sm. 101,5° (*B.* 34, 1838).  
 \*75) 1-Diacetylamidonaphtalin. Sm. 130° (*See.* 79, 539).  
 76) 2-Diacetylamidonaphtalin. Sm. 66,5° (*See.* 79, 540).  
 77)  $\alpha$ -Oximido-2'-Oxy-4-Methyldiphenylmethan. Sm. 175° (*B.* 35, 2813 *C.* 1902 [2] 1117).  
 78) 3,9-Dimethylphenoxazoniumhydrat. Bromid, Pikrat (*B.* 34, 1624; *A.* 322, 21 *C.* 1902 [2] 221).  
 79) Benzylester d. Phenylamidoameisensäure. Sm. 78° (*B.* 34, 2800 Ann.).  
 80) Phenylamid d. 2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 127° (*B.* 35, 3645 *C.* 1902 [2] 1456).  
 81) Phenylamid d. 3-Oxy-1-Methylbenzol-4-Carbonsäure. Sm. 193° (*B.* 35, 3646 *C.* 1902 [2] 1456).  
 82) Phenylamid d. 3-Oxybenzylmethyläther-1-Carbonsäure. Sm. 120° (*D.R.P.* 65952). — \*II, 903.
- $C_{14}H_{13}O_2N_3$  \*26) 2-Oxybenzylidenhydrazid d. Phenylamidoameisensäure. Sm. 198 bis 200° (*B.* 34, 4300 *C.* 1902 [1] 304).

- $C_{14}H_{15}O_2N_3$  \*28)  $\alpha$ -4-Nitrophenylhydrazon- $\alpha$ -Phenyläthan. Sm. 183,5—184° (184 bis 184,5°) (B. 34, 1788, 2375; B. 34, 3893 C. 1902 [1] 122).
- 38)  $\alpha$ -Benzyliden- $\beta$ -[2-Nitro-4-Methylphenyl]hydrazin. Sm. 166° (Soc. 79, 1143).
- 39)  $\alpha$ -Nitroso- $\beta$ -Benzoyl- $\alpha$ -Methyl- $\beta$ -Phenylhydrazin. Sm. 108° (B. 35, 1944 C. 1902 [2] 112).
- 40) Methyläther d. Verbindung  $C_{13}H_{11}O_2N_3$ . Sm. 161—163° (C. r. 134, 606 C. 1902 [1] 874).
- 41) 2-Methyldiazoamidobenzol-2'-Carbonsäure. Sm. 95—96° u. Zers. (J. pr. [2] 63, 303).
- 42) 3-Methyldiazoamidobenzol-2'-Carbonsäure. Sm. 114° u. Zers. (J. pr. [2] 63, 296).
- 43) 4-Methyldiazoamidobenzol-2'-Carbonsäure. Sm. 118° u. Zers. (J. pr. [2] 63, 297).
- 44) Azobenzol-4-Amidoessigsäure. Sm. 140°. Na, Ba (B. 35, 580 C. 1902 [1] 581).
- 45) Methylester d. Diazomidobenzol-2-Carbonsäure. Sm. 71° (J. pr. [2] 63, 263; [2] 64, 79).
- 46) Methylester d. Azobenzol-4-Amidoameisensäure (B. 35, 582 C. 1902 [1] 581).
- $C_{14}H_{15}O_2N_3$  3)  $\alpha$ -[3-Nitrobenzyliden]amido- $\alpha$ -Phenylguanidin.  $HNO_3$ , Pikrat (G. 31 [1] 531).
- 4) 2,2'-Di[Oximidomethyl]diazoamidobenzol. Zers. bei 73—74° (B. 34, 1332).
- $C_{14}H_{15}O_3N$  \*16) Äthylester d. 2-Naphtyloxaminsäure. Sm. 121° (Soc. 79, 846 Ann.).
- 31) Benzoylderivat d. 2-Amido-1,3-Dioxybenzol-1-Methyläther. Sm. 163° (B. 35, 1481 C. 1902 [1] 1209).
- 32) 2-Methoxyphenylester d. 4-Amidobenzol-1-Carbonsäure. Sm. 145° (D.R.P. 67923). — \*II, 789.
- 33) 4-Oxyphenylamid d. Oxyessigphenyläthersäure. Sm. 158—159° (D.R.P. 82105). — \*II, 408.
- $C_{14}H_{15}O_3N_3$  30) 4-Nitrobenzyläther d. 4-Oxy-1-Methylbenzol. Sm. 91° (A. 224, 144). — II, 1060.
- 31) Methyläther d. Phenylhydrazon-4-Oxyphenylnitromethan. Sm. 113,5—114° (B. 34, 2027).
- 32)  $\alpha$ -[2-Oxybenzyliden]- $\beta$ -[2-Nitro-4-Methylphenyl]hydrazin. Sm. 226° (Soc. 79, 1143).
- 33) Äthyläther d. 3-Nitro-4-Oxyazobenzol. Sm. 93° (Soc. 79, 159).
- 34) Amid d.  $\alpha$ -[3-Nitrophenyl]amido- $\alpha$ -Phenylessigsäure. Sm. 151° (B. 35, 3338 C. 1902 [2] 1193).
- $C_{14}H_{15}O_4N$  21) Oxyessig-1-Acetylamido-2-Oxynaphtyläthersäure. Sm. 234—235° (B. 34, 3201). — \*II, 525.
- 22)  $\alpha$ , $\beta$ -Lakton d.  $\alpha$ , $\gamma$ -Dioxy- $\beta$ -[2-Chinoly]- $\beta$ -Oxymethylpropan-3-Carbonsäure +  $H_2O$  (L. d. Trimethylolchinaldin- $\beta$ -Carbonsäure). Sm. 167 bis 168° wasserfrei.  $HCl$ , ( $2HCl$ ,  $PtCl_4$  +  $2H_2O$ ), ( $HCl$ ,  $AuCl_3$ ), Pikrat (B. 34, 4333 C. 1902 [1] 320).
- $C_{14}H_{15}O_4N_3$  12) 4-Methylphenyl-2,4-Dinitrobenzylamin. Sm. 93° (B. 35, 1266 C. 1902 [1] 1102; M. 23, 548 C. 1902 [2] 742).
- 13) 3-Methyläther d.  $\alpha$ -[4-Nitrophenylhydrazon]- $\beta$ -[3,4-Dioxybenzyliden]hydrazin. Sm. 227° (A. 324, 323 C. 1902 [2] 1505).
- $C_{14}H_{15}O_4P$  1) 4-Methyldiphenylphosphinsäure-4'-Carbonsäure (p-Tolylbenzophosphinsäure). Sm. oberh. 300° (A. 315, 64).
- $C_{14}H_{15}O_5N$  2) 8-Diacetylamido-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 261—262° (B. 34, 674).
- 3) Methylester d. 3-Acetoxy-1-Acetylmindol-2-Carbonsäure. Sm. 83 bis 84° (B. 34, 1855; D.R.P. 131400 C. 1902 [1] 1343).
- 4) Äthylester d. Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 100° (B. 34, 3195). — \*II, 524.
- 5) 2-Methoxyphenylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Sm. 238—239° (J. pr. [2] 63, 79).
- 6) 4-Methoxyphenylamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Sm. 214° (J. pr. [2] 63, 79).
- $C_{14}H_{15}O_6Br_3$  \*2) Triacetat d. 2,5,6-Tribrom-4-Oxy-1,3-Di[Oxymethyl]benzol. Sm. 98—99° (A. 320, 227 C. 1902 [1] 656).

- $C_{11}H_{11}NBr_2$  5)  $\alpha$ -Dibrom- $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Pyridyl]äthan. HBr (*B.* 35, 2775 *C.* 1902 [2] 992).
- $C_{14}H_{13}NS_2$  \*1) Benzylester d. Phenylamidodithioameisensäure. Sm. 84° (*Bl.* [3] 27, 813 *C.* 1902 [2] 695; *B.* 35, 3384 *C.* 1902 [2] 1363).
- $C_{14}H_{13}N_2Cl_3$  \*1)  $\beta\beta$ -Trichlor- $\alpha$ -Di[Phenylamido]äthan. H<sub>2</sub>SO<sub>4</sub> (*A.* 316, 131).
- $C_{14}H_{13}N_2J$  5) Jodmethylat d. 1-Phenylbenzimidazol. Sm. 200° (*B.* 34, 4204 *C.* 1902 [1] 262).
- 6) Jodäthylat d. Phenazon. Sm. 185—187° (*J. pr.* [2] 65, 298 *C.* 1902 [1] 1235).
- $C_{11}H_{13}N_3S$  \*1)  $\alpha$ -Benzylidenamido- $\beta$ -Phenylthioharnstoff. Sm. 189° (*B.* 35, 3236 *C.* 1902 [2] 1044).
- 7) Methyläther d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylazomerkaptomethan. Sm. 66° (*B.* 34, 337).
- $C_{11}H_{13}Cl_2P$  1) 4-[ $\beta$ -Phenyläthyl]phenyldichlorphosphin. Sm. 2°; Sd. 250°<sub>60</sub> (*A.* 315, 49).
- $C_{14}H_{13}Cl_2P$  1) 4-[ $\beta$ -Phenyläthyl]phenylphosphortetrachlorid. Sm. 65° (*A.* 315, 50).
- $C_{14}H_{14}ON_2$  \*3) s-Phenyl-2-Methylphenylharnstoff. Sm. 207—208° (196°) (*Soc.* 79, 105; *J. pr.* [2] 65, 440 *C.* 1902 [2] 38).
- \*4) s-Phenyl-3-Methylharnstoff. Sm. 173—174° (*J. pr.* [2] 65, 426 *C.* 1902 [2] 36).
- \*5) s-Phenyl-4-Methylphenylharnstoff. Sm. 213—214° (*Soc.* 79, 103; *J. pr.* [2] 65, 440 *C.* 1902 [2] 38).
- \*7) Dibenzylnitrosamin. Sm. 61° (*B.* 34, 557).
- \*37)  $\alpha$ -Phenylhydrazon- $\alpha$ -[4-Oxyphenyl]äthan. Sm. 148° (*C. r.* 133, 743).
- \*45) 4'-Oxy-2,3'-Dimethylazobenzol. Sm. 132° (*J. pr.* [2] 65, 431 *C.* 1902 [2] 37).
- \*51) 4-Oxy-3,4'-Dimethylazobenzol. Sm. 163° (*J. pr.* [2] 65, 433 *C.* 1902 [2] 37).
- \*52) 6-Oxy-3,4'-Dimethylazobenzol. Sm. 110—112° (*J. pr.* [2] 65, 439 *C.* 1902 [2] 37).
- \*73) Acetyl-s-Diphenylhydrazin. Sm. 159° (*J. pr.* [2] 64, 151).
- \*74)  $\beta$ -Benzoyl- $\alpha$ -Methyl- $\alpha$ -Phenylhydrazin (*B.* 35, 1566).
- 81)  $\alpha$ -Phenylimido- $\alpha$ -[4-Methylphenyl]hydroxylamidomethan. Sm. 248° (*B.* 35, 1453 *C.* 1902 [1] 1157).
- 82)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Oxybenzyliden]hydrazin. Sm. 142° (*A.* 324, 324 *C.* 1902 [2] 1505).
- 83)  $\beta$ -Benzoyl- $\beta$ -Methyl- $\alpha$ -Phenylhydrazin. Sm. 136° (*B.* 35, 1945 *C.* 1902 [2] 112).
- 84) 2-Oxy-1-Methyl-3-Phenyl-2,3-Dihydrobenzimidazol. Sm. 168° (*B.* 34, 4205 *C.* 1902 [1] 262).
- 85) 2-Methylphenylamid d. 2-Amidobenzol-1-Carbonsäure. Sm. 104° (*J. pr.* [2] 63, 283).
- 86) 3-Methylphenylamid d. 2-Amidobenzol-1-Carbonsäure. Sm. 118° (*J. pr.* [2] 63, 284).
- 87) 4-Methylphenylamid d. 2-Amidobenzol-1-Carbonsäure. Sm. 151° (*J. pr.* [2] 63, 284).
- 88) Diphenylamid d. Amidoessigsäure. Sm. 38—40° (*D.R.P.* 59121). — \*II, 175.
- $C_{14}H_{11}ON_4$  6)  $\alpha$ -[2-Oxybenzyliden]amido- $\alpha$ -Phenylguanidin. (2HCl, PtCl<sub>4</sub>, HNO<sub>3</sub>, Pikrat (*G.* 31 [1] 529).
- $C_{14}H_{11}O_2N_2$  \*9) Methyläther d. 4-Oxy-1-Phenylnitrosamidomethylbenzol. Sm. 104° (*A.* 315, 141).
- \*39) Dimethyläther d. 2,2'-Dioxyazobenzol. Sm. 153° (*A.* 320, 131).
- \*40) Monoäthyläther d. 2,4-Dioxyazobenzol. Sm. 87° (u. 88°) (*Am.* 26, 162).
- 77) Benzyl-5-Nitro-2-Methylphenylamin. Sm. 124° (*B.* 35, 338 *C.* 1902 [1] 595; *D.R.P.* 128754 *C.* 1902 [1] 610).
- 78) Benzyläther d. 4-Oxyphenylharnstoff. Sm. 174° (*B.* 34, 1945).
- 79) 4-Oxy-3-Phenylhydrazonmethyl-1-Oxymethylbenzol. Sm. 142° (*B.* 34, 2457).
- 80) 6-[4-Methylphenyl]amido-4-Oximido-1-Keto-3-Methyl-1,4-Dihydrobenzol. Sm. 190° (*B.* 34, 4350 *C.* 1902 [1] 253).
- 81)  $\alpha$ -Phenyl- $\beta$ -Benzylhydrazin- $\alpha$ -Carbonsäure ( $\beta$ -2-Benzylhydrazido-benzol-1-Carbonsäure). Sm. 134° u. Zers. (*B.* 35, 2316 *C.* 1902 [2] 452).

- $C_{14}H_{14}O_2N_4$  \*15) Di[Phenylhydrazid] d. Oxalsäure. Sm. 274° (B. 35, 3688 C. 1902 [2] 1451).
- 19) Methylester d. 2',4'-Diamidoazobenzol-2-Carbonsäure. Sm. 138°.  $HCl + H_2O$  (J. pr. [2] 63, 293).
- 20) Cinnamylidenhydrazid d. 5-Keto-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 145° u. Zers. (J. pr. [2] 64, 347).
- $C_{14}H_{14}O_3S_2$  \*3) Di[4-Methylphenyl]disulfoxyd. Sm. 77,5° (B. 34, 239).
- 5) 4-Methylphenylester d. 1-Methylbenzolthiolsulfonsäure (1-Methylbenzol-4-Disulfoxyd). Sm. 78° (Am. 25, 197).
- $C_{14}H_{14}O_2As_2$  1) Dimethyläther d. 4,4'-Dioxyarsenobenzol (Arsenobenzol). Sm. 200° u. Zers. (A. 320, 299 C. 1902 [1] 920).
- $C_{14}H_{14}O_2Hg$  \*1) Dimethyläther d. Quecksilberdi[2-Oxyphenyl]. Sm. 108° (B. 35, 2853 C. 1902 [2] 1037).
- $C_{14}H_{14}O_2Te$  1) Dimethyläther d. Di[4-Oxyphenyl]tellurid. Sm. 50° (A. 315, 10).
- $C_{14}H_{14}O_3N_2$  27)  $\alpha$ -Oxy-4-Nitro-4-Methylamidodiphenylmethan. Sm. 108° (D. R. P. 45806). — \*II, 658.
- 28) 2,4,6-Trioxo-5-Phenylazo-1,3-Dimethylbenzol. Sm. 200° (A. 318, 308).
- 29)  $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthan. Sm. 168 bis 169°.  $HCl$ , Pikrat +  $H_2O$  (B. 35, 2791 C. 1902 [2] 994).
- 30) 4-Amidodiphenylamin-4'-Oxyessigsäure. Sm. 225° (B. 34, 3939 C. 1902 [1] 117).
- 31) s-Diphenylhydrazin-4-Oxyessigsäure. Sm. 239°. Ba (B. 34, 3940 C. 1902 [1] 117).
- 32) Äthylester d.  $\alpha$ -[1-Naphtyl]harnstoff- $\beta$ -Carbonsäure. Sm. 170 bis 170,5° (Soc. 79, 845).
- 33) Äthylester d.  $\alpha$ -[2-Naphtyl]harnstoff- $\beta$ -Carbonsäure. Sm. 140° (Soc. 79, 846).
- $C_{14}H_{14}O_3S$  5) 2-Methylphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 54 bis 55° (B. 35, 1443 C. 1902 [1] 1201).
- 6) 3-Methylphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 51° (B. 35, 1444 C. 1902 [1] 1201).
- 7) 4-Methylphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 69 bis 70° (B. 35, 1444 C. 1902 [1] 1201).
- $C_{14}H_{14}O_4N_2$  7) Monoäthylester d. 1,4-Benzodiazin-2,3-Di[Methylcarbonsäure]. Na (Bl. [3] 25, 713).
- 8) Methyläthylester d. 4-Phenylpyrazol-3,5-Dicarbonsäure. Sm. 105° (B. 35, 33 C. 1902 [1] 424).
- $C_{14}H_{14}O_4N_4$  14)  $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Methylamidophenyl]methan. Sm. 243—244° (B. 35, 742 C. 1902 [1] 753).
- $C_{14}H_{14}O_4S$  12) Äthylester d. 2-Naphtylsulfonessigsäure +  $\frac{1}{2}H_2O$ . Sm. 82° (J. pr. [2] 66, 144 C. 1902 [2] 797).
- 13) 2-Methoxyphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 85° (B. 34, 2998).
- $C_{14}H_{14}O_4S_2$  \*3) Di[4-Methylphenyl]disulfon. Zers. bei 210° (J. pr. [2] 63, 171).
- $C_{14}H_{14}O_4S_6$  \*1) Trisulfid d. 1-Methylbenzol-4-Sulfonsäure (J. pr. [2] 66, 348 C. 1902 [2] 1301).
- $C_{14}H_{14}O_4S_6$  2) Tetrasulfid d. 1-Methylbenzol-2-Sulfonsäure. Fl. (J. pr. [2] 60, 129). — \*II, 84.
- $C_{14}H_{14}O_5Br_2$  1) 2,2-Diäthyläther d. 5,7-Dibrom-2,2,6-Trioxo-1,3-Diketo-4-Methyl-2,3-Dihydroindolen. Sm. 182—184° (B. 34, 2163).
- $C_{14}H_{14}O_5S$  1) Gem. Anhydrid d. Essigsäure u. 1-Oxynaphtalinäthyläther-4-Sulfonsäure (B. 34, 3183). — \*II, 511.
- $C_{14}H_{14}O_6N_4$  4) Verbindung (aus Anilin u. 2,4,6-Trinitro-1-Aethylbenzol). Sm. 44 bis 45° (M. 21, 45). — \*II, 139.
- $C_{14}H_{14}O_6N_6$  C 46,4 — H 3,9 — O 26,5 — N 23,2 — M. G. 362.
- 1) 1-Amid d.  $\alpha$ -[4-Nitrophenyl]azo- $\alpha$ -[5-Keto-4,5-Dihydropyrazolyl]-3-jessigsäureäthylester-1-Carbonsäure. Sm. 214—215° (B. 34, 88).
- C 49,7 — H 4,1 — O 37,9 — N 8,3 — M. G. 338.
- $C_{14}H_{14}O_8N_2$  1) Diäthylester d.  $\alpha$ -[2,4-Dinitrophenyl]äthen- $\beta\beta$ -Dicarbonsäure. Sm. 97° (M. 23, 542 C. 1902 [2] 743).
- $C_{14}H_{14}NCl$  \*1) Dibenzylchloramin. Sm. 56° (Soc. 79, 464).
- $C_{14}H_{14}N_2Cl_2$  \*3) 2,2'-Dichlor-4,4'-Diamido-3,3'-Dimethylbiphenyl. Sm. 197° (M. 22, 490).



- $C_{14}H_{11}N_3Cl_3$  4) s-Di[2-Chlorbenzyl]hydrazin. Sm. 86—87°. HCl, Pikrat (*B.* 34, 849).
- $C_{14}H_{11}N_3Br_2$  1)  $\alpha\beta$ -Dibrom- $\alpha$ -[4-Amidophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthan. Zers. bei 157° (*B.* 35, 2793 *C.* 1902 [2] 995).
- $C_{14}H_{11}N_2S$  \*3) uns-Phenylbenzylthioharnstoff. Sm. 136° (*B.* 35, 1284 *C.* 1902 [1] 1094).
- \*9) Methyläther d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylamidomerkaptomethan. Sm. 110° (*B.* 34, 337).
- 13) Phenylmethylthioharnstoff. Sm. 189° (*Ann.* 26, 355).
- $C_{14}H_{11}N_4S_2$  4) Disulfid d.  $\alpha$ -Amido- $\alpha$ -Phenylimido- $\alpha$ -Merkaptomethan. Sm. 128° (*B.* 34, 3132).
- 5)  $\beta$ -[Phenylimidophenylamidomethyl]hydrazidodithioameisensäure.  $\alpha$ -Amidodiphenylguanidinsalz (*B.* 35, 1719 *C.* 1902 [2] 30).
- $C_{14}H_{14}ClP$  1) Di[4-Methylphenyl]chlorphosphin. Sd. 345—350° (*A.* 315, 63).
- $C_{14}H_{14}ClAs$  \*1) Di[4-Methylphenyl]chlorarsin. Sm. 45° (*A.* 321, 160 *C.* 1902 [2] 43).
- $C_{14}H_{14}Cl_2P$  1) Di[4-Methylphenyl]phosphortrichlorid (*A.* 315, 63).
- $C_{14}H_{14}S_3As_2$  1) 4-Methylphenylarsensesquisulfid. Sm. 119—120° (*A.* 320, 302 *C.* 1902 [1] 920).
- $C_{14}H_{15}ON$  \*7) Methyläther d. 4-Oxy-1-Phenylamidomethylbenzol. Sm. 64,5° (*A.* 315, 141).
- 20) Äthyläther d.  $\alpha$ -[1-Naphtyl]imido- $\alpha$ -Oxyäthan. Sd. 175°<sub>12</sub>. HCl (*Soc.* 79, 697).
- 21) Äthyläther d.  $\alpha$ -[2-Naphtyl]imido- $\alpha$ -Oxyäthan. Sd. 176,5°<sub>12</sub> (*Soc.* 79, 698).
- 22) 2-Acetyläthylamidonaphtalin. Sm. 48—49° (*Bl.* [3] 27, 971 *C.* 1902 [2] 1211).
- 23)  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Pyridyl]äthan. Sm. 93°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 35, 2777 *C.* 1902 [2] 992).
- $C_{14}H_{15}ON_3$  21)  $\gamma$ -Oximido- $\beta$ -[2-Naphtyl]hydrazonbutan. Sm. 184° (*G.* 31 [2] 416 *C.* 1902 [1] 35).
- 22) 1-[2,3-Dimethylphenyl]oxyamidodiazobenzol. Sm. 105—105,5° (*A.* 316, 276).
- 23) 1-[2,4-Dimethylphenyl]oxyamidodiazobenzol. Sm. 82,5—83° (*A.* 316, 275).
- 24) 1-[2,5-Dimethylphenyl]oxyamidodiazobenzol. Sm. 111,5° (*A.* 316, 274).
- 25) 1-[2,6-Dimethylphenyl]oxyamidodiazobenzol. Sm. 113° (*A.* 316, 275).
- 26) 1-[3,4-Dimethylphenyl]oxyamidodiazobenzol. Sm. 140—141° (*A.* 316, 276).
- 27) Isopropylidenhydrazid d. 2-Naphtylamidoameisensäure. Sm. 192 bis 193° (*B.* 34, 4302 *C.* 1902 [1] 305).
- $C_{14}H_{15}OJ$  \*2) Di[4-Methylphenyl]jodoniumoxydhydrat. Jodid, Bichromat, Bromcamphersulfonat (*Soc.* 81, 1358 *C.* 1902 [2] 1197).
- $C_{14}H_{15}O_2N$  32) 3-Oxy- $p$ -Oxymethyl-4-Methyldiphenylamin. Sm. noch nicht bei 300° (*J. pr.* [2] 65, 76 *C.* 1902 [1] 580).
- 33)  $\alpha$ -Cyan- $\beta$ -[4-Isopropylphenyl]propen- $\gamma$ -Carbonsäure (*C.* 1902 [2] 700).
- 34) Äthylester d. 2-Methyl-4-Phenylpyrrol-3-Carbonsäure. Sm. 105° (*B.* 35, 3002 *C.* 1902 [2] 1120).
- $C_{14}H_{15}O_2N_3$  6) 4-Dimethylamido-3'-Oxydiphenylnitrosamin. Sm. 125,5° (*B.* 35, 3087 *C.* 1902 [2] 1116).
- 7) 3-[ $\alpha$ -Semicarbazonäthyl]-2-Methyl-5-Phenylfuran. Sm. 251—252° (*C. r.* 134, 845 *C.* 1902 [1] 1164).
- 8) Amid d. 4-Benzoylmethyl-3,5-Dimethylpyrazol-1-Carbonsäure. Sm. 262—264° u. Zers. (*C. r.* 133, 47; *C. r.* 134, 844 *C.* 1902 [1] 1164).
- $C_{14}H_{15}O_3P$  3) Di[4-Methylphenyl]phosphinsäure. Sm. 135° (*A.* 315, 63).
- 4) Benzyl-4-Methylphenylphosphinsäure. Sm. 145° (*A.* 315, 70).
- 5) 4-[ $\beta$ -Phenyläthyl]phenylphosphinige Säure. Sm. 156—157° (*A.* 315, 50).
- $C_{14}H_{15}O_3N$  16) 3-Oxy- $p$ -Dimethylamidomethylnaphtalin-2-Carbonsäure. Sm. 180° (*C.* 1901 [1] 1394).
- $C_{14}H_{15}O_3P$  1) 4-[ $\beta$ -Phenyläthyl]phenylphosphinsäure. Sm. 256° (*A.* 315, 51).
- $C_{14}H_{15}O_4N$  \*10)  $\alpha\gamma$ -Imid d.  $\beta$ -Phenylpropan- $\alpha\alpha\gamma$ -Tricarbonsäure- $\alpha$ -Äthylester. Sm. 119° (*A.* 320, 88).

- $C_{14}H_{15}O_4N$  12) Aethylester d.  $\gamma$ -Phenylimido- $\beta$ -Ketobutan- $\alpha$ -Ketocarbonsäure. Sm. 139—140° (*C. r.* 134, 1063 *C. 1902* [1] 1321).
- $C_{14}H_{15}O_5N$  2) Diäthylester d. 3-Oxyindol-1,2-Dicarbonsäure (Carboxyäthylindoxylsäureäthylester) (*D.R.P.* 126962 *C. 1902* [1] 83).
- $C_{14}H_{15}O_5N_3$  2)  $\alpha$ -Lakton d.  $\delta$ -Semicarbazon- $\gamma$ -Oxy- $\gamma$ -Phenylpentan- $\alpha$ - $\beta$ -Dicarbonsäure. Sm. 210° u. Zers. (*A.* 321, 99 *C. 1902* [1] 979).
- $C_{14}H_{15}O_5Br_3$  2) Methylster d.  $\alpha$ -Brom- $\beta$ -Aethoxyl- $\beta$ -[3,5-Dibrom-4-Acetoxyphenyl]propionsäure. Sm. 119° (*A.* 322, 228 *C. 1902* [2] 277).
- $C_{14}H_{15}N_3S$  18) Methyläther d. Phenylimido- $\alpha$ -Phenylhydrazidomerkaptomethan. Sm. 77—78°. (2HCl, PtCl<sub>4</sub>), HJ (*B.* 25, 3108; 34, 335). — IV, 679.
- 19) Methyläther d. Phenylimido- $\beta$ -Phenylhydrazidomerkaptomethan. Sm. 80°. HJ (*B.* 25, 3109; 34, 336). — IV, 679.
- $C_{14}H_{15}N_4Cl$  3) 5-Chlor-2,6-Diamido-3,4'-Dimethylazobenzol. Sm. 152° (*Soc.* 81, 96 *C. 1902* [1] 186).
- $C_{14}H_{16}ON_2$  19) 4-Aethylamido-4'-Oxydiphenylamin. Sm. 140° (*D.R.P.* 133481 *C. 1902* [2] 555).
- 20) 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 99° (*D.R.P.* 74196; *B.* 35, 3087 *C. 1902* [2] 1116).
- 21) 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 161° (*B.* 35, 3085 *C. 1902* [2] 1116; *D.R.P.* 134947 *C. 1902* [2] 1023).
- 22) Methyläther d. 4,4'-Diamido-5-Oxy-2-Methylbiphenyl. Sm. 82°. 2HCl (*D.R.P.* 42006). — \*II, 539.
- 23) Methylphenylecyklotetramethylenpyrazolon. Sm. 135° (*A.* 317, 107).
- 24)  $\alpha$ -Oxy- $\beta$ -[4-Amidophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthan. Sm. 130°. (HCl, 2H<sub>2</sub>GCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>) (*B.* 35, 2792 *C. 1902* [2] 995).
- 25) Dihydropyrazolderivat (aus d. Verb. C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>). Sd. 220—225°<sub>30</sub> (*B.* 34, 3490).
- $C_{14}H_{16}ON_4$  \*3) 5,5'-Diamido-2,2'-Dimethylazoxybenzol. Sm. 148—148,5°. 2HCl, (2HCl, PtCl<sub>4</sub>) (*J. pr.* [2] 63, 563).
- 8) 4,4'-Diamido-3,3'-Dimethylazoxybenzol. Sm. 188—189° (*C. r.* 134, 554 *C. 1902* [1] 868).
- 9) 5,5'-Diamido-4-Oxy-2,2'-Dimethylazobenzol. Sm. 176—178° u. Zers. (*J. pr.* [2] 63, 567).
- $C_{14}H_{16}O_2N_2$  17) Phenylhydrazondimethyldicyklopentancarbonsäure. Zers. bei 217° (*Soc.* 79, 780).
- 18) 3,5-Dimethyl-1-Phenylpyrazol-4-[Aethyl- $\alpha$ -Carbonsäure]. Sm. 129 bis 130° (*C. 1902* [2] 346).
- 19) 3,5-Dimethyl-1-Phenylpyrazol-4-[Aethyl- $\beta$ -Carbonsäure]. Sm. 134 bis 135° (*C. 1902* [2] 346).
- 20) Methylster d. 3,5-Dimethyl-1-Phenylpyrazol-4-Methylcarbon-säure. Sm. 65° (*C. 1902* [2] 345).
- $C_{14}H_{16}O_2N_6$  2)  $\alpha\beta$ -Di[Acetylamidol]- $\alpha\beta$ -Di-[4-Pyrimidyl]äthan. Sm. 255° (*B.* 35, 1572 *C. 1902* [1] 1236).
- $C_{14}H_{16}O_3N_2$  14) Aethyläther d. 2,4-Diketo-3-Allyl-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 127—128° (*J. pr.* [2] 66, 246 *C. 1902* [2] 1123).
- 15) 2-Keto-6- oder 7-Methyl-1,2-Dihydro-1,4-Benzdiazin-3-[ $\alpha\alpha$ -Dimethyläthyl- $\beta$ -Carbonsäure] (*Soc.* 79, 758).
- $C_{14}H_{16}O_4N_4$  3) Aethylester d. 5-Keto-4-[4-Methylphenyl]azo-4,5-Dihydropyrazol-3-Methylcarbon-säure. Sm. 172—173° (*J. pr.* [2] 64, 342).
- $C_{14}H_{16}O_4N_2$  \*4) 5-Methyl-3-Aethylster d. 4-Phenyl-4,5-Dihydropyrazol-3,5-Dicarbonsäure. Sm. 76° (*B.* 35, 33 *C. 1902* [1] 424).
- \*5) 3-Methyl-5-Aethylster d. 4-Phenyl-4,5-Dihydropyrazol-3,5-Dicarbonsäure. Sm. 107° (*B.* 35, 33 *C. 1902* [1] 424).
- 10) Aethylester d.  $\alpha$ -[Acetylphenylhydrazon]acetessigsäure. Sm. 119 bis 120° (*B.* 35, 919 *C. 1902* [1] 806).
- 11)  $\alpha\beta$ -Imid d.  $\beta$ -Phenylamidopropan- $\alpha\beta\gamma$ -Tricarbonsäure- $\gamma$ -Aethyl-ester. Sm. 167° (*B.* 35, 2082 *C. 1902* [2] 207).
- $C_{14}H_{16}O_4Br_2$  2) 2-Acetat-5-Isobutyrat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol. Sm. 119° (*B.* 35, 441 *C. 1902* [1] 642).
- $C_{14}H_{16}O_4Br_4$  1) Dimethylster d. Bis-2,3-Dibrom-2,3-Dihydro-R-Penten- $\beta$ -Dicarbonsäure. Sm. 180—185° (*B.* 34, 70).
- $C_{14}H_{16}O_4S$  2) Aethylester d. 1-Oxynaphtalinäthyläther-4-Sulfonsäure. Sm. 102 bis 103° (*B.* 34, 3182). — \*II, 511.

- $C_{14}H_{16}O_6N_2$  9)  $\alpha\alpha$ -Diäthylester d. Phenylhydrazonmethan- $\alpha\alpha$ ,2-Tricarbonsäure. Sm. 135° (B. 35, 923 C. 1902 [1] 806).
- 10) Triäthylester d.  $\alpha\gamma$ -Dicyanpropen- $\alpha\beta\gamma$ -Tricarbonsäure. Sm. 145 bis 146° u. Zers. Na +  $\frac{1}{2}H_2O$  (B. 34, 3708 C. 1902 [1] 49).
- $C_{14}H_{17}ON$  \*1) Piperidid d.  $\beta$ -Phenylakrylsäure. Sm. 122° (A. 320, 91).
- 10) 3-Keto-4-Phenylamidomethylen-1-Methylhexahydrobenzol. Sm. 170—171° (C. 1901 [1] 1025).
- 11) 4-Oximido-6-Methyl-2-[4-Methylphenyl]-1,2,3,4-Tetrahydrobenzol. Sm. 125—126° (B. 34, 791).
- $C_{14}H_{17}O_2N$  21)  $\alpha$ -[2,4-Dimethylphenyl]amido- $\gamma$ -Keto- $\beta$ -Aethanoyl- $\alpha$ -Buten. Sm. 146° (B. 35, 2506 C. 1902 [2] 438).
- $C_{14}H_{17}O_2N_3$  6) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Isohexenylhexahydropyridin. Sm. 183—184,5° C. 1901 [1] 580).
- $C_{14}H_{17}O_3N$  15) Aethylester d.  $\alpha$ -[2-Methylphenyl]amido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 71° (B. 35, 2510 C. 1902 [2] 438).
- 16) 4-Aethoxyphenylimid d. cis-Butan- $\beta\gamma$ -Dicarbonsäure (cis-Dimethylpyrantin). Sm. 114—115° (C. 1901 [1] 377; Soc. 81, 797 C. 1902 [2] 108).
- 17) 4-Aethoxyphenylimid d.  $\beta$ -Methylpropen- $\alpha\beta$ -Dicarbonsäure (as-Dimethylpyrantin). Sm. 70—71° (C. 1901 [1] 377; Soc. 81, 796 C. 1902 [2] 108).
- $C_{14}H_{17}O_5N$  4) Lakton (aus d. Base  $C_{14}H_{15}O_4N_2$ ). Sm. 75—78°. HJ (B. 35, 1748 C. 1902 [2] 68).
- 5) Diäthylester d. Formylphenylamidoessigsäure-2-Carbonsäure. Fl. (D.R.P. 127648 C. 1902 [1] 337).
- 6)  $\alpha$ -Phenylmonamid d. Pentan- $\alpha\alpha\epsilon$ -Tricarbonsäure. Sm. 165° (A. 316, 105).
- $C_{14}H_{17}O_6N$  \*1) Mandelsäurenitrilglykosid. Sm. 149° (B. 34, 3810 C. 1902 [1] 128).
- 9)  $\alpha\gamma$ - $\epsilon\zeta$ -Dilakton d.  $\alpha\beta$ -Dioxy- $\delta$ -Oximido- $\zeta$ -Oxymethyl- $\delta\delta$ -Dimethyl- $\beta\epsilon$ -Nonadien- $\gamma\epsilon$ -Dicarbonsäure. Sm. 180° u. Zers. (A. 315, 108).
- 10) Trimethylester d.  $\alpha$ -Phenylamidoäthan- $\alpha\beta$ -Tricarbonsäure. Sm. 95° (78—79°) (B. 35, 517 C. 1902 [1] 658).
- 11) Triäthylester d. Pyridin-2,3,4-Tricarbonsäure. Sm. 300—305° (M. 22, 586).
- $C_{14}H_{17}O_7N$  3) Dhurrin (C. 1902 [2] 288).
- 4) Helicinacyanhydrin. Sm. 176° u. Zers. (B. 34, 630).
- $C_{14}H_{17}O_8N$  2)  $\alpha\delta$ -Lakton d.  $\delta$ -Imido- $\delta$ -Oxy- $\alpha$ -Buten- $\alpha\alpha\beta\gamma$ -Tetracarbonsäure- $\alpha\beta\gamma$ -Triäthylester +  $H_2O$  (Isoimidodicarboxylakonitsäuretriäthylester). Sm. 70° (B. 34, 3711 C. 1902 [1] 49).
- 3) Triäthylester d. 2,6-Dioxy-3,4,5-Tricarbonsäure. Sm. 137° (B. 34, 3712 C. 1902 [1] 49).
- $C_{14}H_{18}ON_2$  5) 4-Keto-3-Methyl-2-Isoamyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 40 bis 41° (C. 1901 [2] 891).
- $C_{14}H_{18}O_3N_2$  12) Aethylester d. 5-Phenylhydrazido-2,3-Dihydro-R-Penten-4-Carbonsäure. Sm. 93° (A. 317, 59).
- $C_{14}H_{18}O_3N_2$  5) Aethyläther d. 2,4-Diketo-3-Propyl-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 121—122° (J. pr. [2] 66, 246 C. 1902 [2] 1123).
- 6) Aethylester d.  $\alpha$ -Phenylureido- $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sm. 130° (C. 1901 [1] 218; Bl. [3] 25, 915). — \*II, 190.
- 7) Aethylester d.  $\beta$ -Phenylacetylhydrazonbuttersäure. Sm. 105° (J. pr. [2] 64, 318).
- $C_{14}H_{18}O_4N_2$  7) Base (aus d. Jodmethylat d. Cyanhydrocotarnin). Sm. 182° (B. 35, 1747 C. 1902 [2] 68).
- 8) Phenylamidoformylderivat d.  $\gamma$ -Hydroxylamido- $\beta$ -Methylpropen- $\gamma$ -Carbonsäureäthylester. Sm. 128° (Bl. [3] 25, 917).
- $C_{14}H_{18}O_5Br_2$  3) 3,4-Methylenäther-2,5-Dimethyläther- $\alpha$ -Aethyläther d.  $\beta$ -Brom- $\alpha$ -Oxy- $\alpha$ -[6-Brom-2,3,4,5-Tetraoxyphenyl]propan. Fl. (C. 1902 [1] 1163).
- $C_{14}H_{18}O_5Hg_2$  1) Diacetat d. 3-Oxy-4-Isopropyl-1-Methylphenyldi Quecksilberhydroxyd. Sm. 215—216° u. Zers. (B. 35, 2865 C. 1902 [2] 1039).
- $C_{14}H_{18}O_5N_2$  C 49,1 — H 5,3 — O 37,4 — N 8,2 — M. G. 171.
- 1) Verbindung (aus Dimethylacetessigsäuremethylester). Sm. 65° (C. 1902 [1] 28).
- $C_{14}H_{18}NJ$  6) Dimethyläthyl-2-Naphtylammoniumjodid. Sm. 152° (Bl. [3] 27, 971 C. 1902 [2] 1211).

- $C_{14}H_{18}N_2S$  3) 1-Phenylthioureido-2,3,4,5-Tetrahydro-R-Hepten. Sm. 129,5—130° (A. 317, 246; B. 34, 133).
- 4) 6-Phenylthioureido-2,3,4,5-Tetrahydro-R-Hepten. Sm. 124—125° (A. 317, 249; B. 34, 133).
- $C_{14}H_{19}ON$  \*5) Phenylamid d. cis-1-Methylhexahydrobenzol-2-Carbonsäure. Sm. 66° (C. 1902 [1] 1163).
- \*6) Phenylamid d. trans-1-Methylhexahydrobenzol-2-Carbonsäure. Sm. 143° (C. 1902 [1] 1163).
- 9) 4'-Acetyl-amido-1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 128—129,5° (A. 318, 324).
- 10) 3-Oximido-1-Methyl-4-Benzylhexahydrobenzol. Sm. 143° (Bl. [3] 27, 306 C. 1902 [1] 1221).
- 11) 1-Benzoyl-2,6-Dimethylhexahydropyridin. Sm. 111° (B. 34, 2427).
- 12) isom.-1-Benzoyl-2,6-Dimethylhexahydropyridin. Sm. 84° (B. 34, 2427).
- $C_{14}H_{19}O_2N$  15)  $\beta$ -Nitro- $\alpha$ -[2,4-Dimethyl-6-tert. Butylphenyl]äthen. Sm. 97—98° (D.R.P. 94019). — \*II, 89.
- 16)  $\alpha$ -2-Methylcamphenpyrrol-3-Carbonsäure. Sm. 246° (B. 34, 3058).
- $C_{14}H_{19}O_2N_2$  2) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Isohexylhexahydropyridin. Sm. 166,5—168,5° (C. 1901 [1] 580).
- $C_{14}H_{19}O_3N$  31) 4-Methylphenylmonamid einer isom. Dimethylglutarsäure. Sm. 138° (C. r. 134, 1114 C. 1902 [2] 26).
- $C_{14}H_{19}O_4N$  8) Aethyläther d. Oxycotarnin. Sm. 84° (B. 35, 1753 C. 1902 [2] 69).
- 9) Aethylester d.  $\alpha$ -Phenylamidoformoxylvaleriansäure. Fl. (Bl. [3] 27, 607 C. 1902 [2] 342).
- 10) Aethylester d.  $\alpha$ -Phenylamidoformoxylisovaleriansäure (Bl. [3] 27, 610 C. 1902 [2] 342).
- 11) Aethylester d. Propionyl-4-Aethoxylphenylamidoameisensäure. Sm. 85—86° (D.R.P. 69328). — \*II, 404.
- 12) Isoamylester d. Acetyl-4-Oxyphenylamidoameisensäure. Sm. 63 bis 65° (D.R.P. 69328). — \*II, 404.
- 13) 4-Aethoxylphenylmonamid d. cis-Butan- $\beta\gamma$ -Dicarbonsäure. Sm. 155—156° (C. 1901 [1] 376; Soc. 81, 791 C. 1902 [2] 108).
- 14) 4-Aethoxylphenylmonamid d. trans-Butan- $\beta\gamma$ -Dicarbonsäure. Sm. 184—185° (C. 1901 [1] 376; Soc. 81, 791 C. 1902 [2] 108).
- 15) 4-Aethoxylphenylmonamid d.  $\beta$ -Methylpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 160—161° (C. 1901 [1] 376; Soc. 81, 790 C. 1902 [2] 108).
- $C_{14}H_{19}O_4J$  1) Diacetat d. 4-Jodoso-1-tert. Butylbenzol. Sm. 95° (B. 34, 3670).
- $C_{14}H_{19}O_5N$  2) Oxsäure (aus d. Lakton  $C_{14}H_{17}O_5N$ ). Sm. 207° (B. 35, 1749 C. 1902 [2] 68).
- 3) Triäthylester d. 2-Methylpyrrol-3,4,5-Tricarbonsäure. Sm. 104° (B. 35, 1560 C. 1902 [1] 1229).
- $C_{14}H_{19}O_5Cl$  \*1)  $\beta$ -Acetochlorglykose. Sm. 72—74° (M. 22, 147, 376; B. 34, 2890).
- 2)  $\alpha$ -Acetochlorglykose. Sm. 63° (B. 34, 2892; M. 22, 1037 C. 1902 [1] 189).
- 3)  $\beta$ -Acetochlorgalaktose. Sm. 82° (75—76°) (M. 22, 379; Soc. 79, 704; B. 34, 2894; M. 22, 1037 C. 1902 [1] 180; B. 35, 837 C. 1902 [1] 758).
- $C_{14}H_{19}O_5Br$  \*1)  $\beta$ -Acetobromglykose. Sm. 88—89° (B. 34, 961, 2892, 3206; R. 21, 43 C. 1902 [1] 988).
- 2)  $\alpha$ -Acetobromglykose. Sm. 79—80° (B. 34, 2893).
- 3)  $\beta$ -Acetobromgalaktose. Sm. 82—83° (B. 35, 838 C. 1902 [1] 758).
- $C_{14}H_{19}O_{12}N$  \*1) Acetonitroglykose. Sm. 150—151° (145°) (B. 34, 973; M. 22, 1045 C. 1902 [1] 181).
- 2) isom. Tetracetylnitroglykose. Sm. 92° (M. 22, 1043 C. 1902 [1] 181).
- 3) Acetonitrogalaktose. Sm. 93—94° (B. 34, 978).
- $C_{14}H_{20}ON_2$  10)  $\gamma$ -Phenylhydrazon- $\gamma$ -Keto- $\beta$ -Methylheptan. Sm. 55—57° (B. 34, 3985 C. 1902 [1] 193).
- 11) Phenylamid d. 2,6-Dimethylhexahydropyridin-1-Carbonsäure. Sm. 147° (B. 34, 2428).
- 12) Phenylamid d. isom. 2,6-Dimethylhexahydropyridin-1-Carbonsäure. Sm. 102° (B. 34, 2428).
- $C_{14}H_{20}O_2N_2$  9)  $\delta$ -Phenylhydrazon- $\beta$ -Methylpentan- $\gamma$ -Methylcarbonsäure. Sm. 100 bis 101° (A. 323, 342 C. 1902 [2] 1205).
- $C_{14}H_{20}O_4N_4$  C 60,9 — H 7,2 — O 11,6 — N 20,3 — M. G. 276.

- $C_{14}H_{20}O_3N_1$  1) Aethyläther d. 4-Diäthylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 76° (C. 1901 [1] 937).
- $C_{14}H_{20}O_2Br_2$  2) 2-Isoamyläther d. 3,6-Dibrom-5-Oxy-2-Oxymethyl-1,4-Dimethylbenzol. Sm. 84,5° (B. 34, 4291 C. 1902 [1] 311). — \*II, 688.
- $C_{14}H_{20}O_3N_2$  8) Aethylester d. 2,4,5-Trimethylphenylamidoacetylamidoameisensäure. Sm. 154—155° (J. pr. [2] 66, 258 C. 1902 [2] 1125).
- $C_{14}H_{20}O_2Br_2$  2) Triäthyläther d. p-Dibrom-1,2,4-Trioxy-p-Aethylbenzol. Sm. 65 bis 67° (M. 22, 600).
- $C_{14}H_{20}O_4N_2$  15) Aethyläther d. 2-Nitro-6-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 119° (B. 35, 2795 C. 1902 [2] 989).  
C 51,8 — H 6,2 — O 24,7 — N 17,3 — M. G. 324.
- $C_{14}H_{20}O_5N_4$  1) 2,4-Di[4-Nitrobenzylidenamido]-1-Oxybenzol (D.R.P. 135335 C. 1902 [2] 1167).  
C 51,2 — H 6,1 — O 34,1 — N 8,5 — M. G. 328.
- $C_{14}H_{20}O_7N_2$  1) Triäthyläther d. p-Dinitro-1,2,3-Trioxy-p-Aethylbenzol. Sm. 51° (M. 23, 192 C. 1902 [1] 1332).  
C 48,8 — H 5,8 — O 37,2 — N 8,1 — M. G. 344.
- $C_{14}H_{20}O_5N_2$  1) Verbindung (aus d. Verb.  $C_{14}H_{18}O_5N_2$ ). Sm. 154° (C. 1902 [1] 28).  
2) isom. Verbindung (aus d. Verb.  $C_{14}H_{18}O_5N_2$ ). Sm. 173° (C. 1902 [1] 28).
- $C_{14}H_{20}O_8Cl_2$  4) Tetraacetat d. Mannitdichlorhydrin. Sm. 214° (B. 35, 842 C. 1902 [1] 759).  
C 41,2 — H 4,9 — O 47,1 — N 6,8 — M. G. 408.
- $C_{14}H_{20}O_{12}N_2$  1) Tetraäthylester d.  $\alpha\beta$ -Dinitroäthan- $\alpha\alpha\beta\beta$ -Tetracarbonsäure. Sm. 65—66° (G. 32 [2] 236 C. 1902 [2] 1499).
- $C_{14}H_{20}N_2S$  2) s-Phenyl-3-Methylhexahydrophenylthioharnstoff. Sm. 92° (B. 35, 831 C. 1902 [1] 713).  
3) Phenylamid d. 2,6-Dimethylhexahydropyridin-1-Thiocarbonsäure. Sm. 83—84° (B. 34, 2428).  
4) Phenylamid d. isom. 2,6-Dimethylhexahydropyridin-1-Thiocarbonsäure. Sm. 112—113° (B. 34, 2429).
- $C_{14}H_{21}ON$  18)  $\alpha$ -Phenylimido- $\gamma$ -Oxy- $\beta\beta\delta$ -Trimethylpentan. Sd. 106—109°<sub>18</sub> (M. 22, 466).  
19) 3-Oxy-4-Phenylamidomethyl-1-Methylhexahydrobenzol. Sm. 126 bis 127° (C. 1901 [1] 1025).  
20) Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[Hexahydro-2-Pyridyl]äthan. Fl. HCl (B. 35, 2789 C. 1902 [2] 994).  
21) 6-tert. Butyl-2,4-Dimethylphenylamid d. Essigsäure. Sm. 161° (B. 28, 2462). — \*II, 321.
- $C_{14}H_{21}ON_3$  4)  $\epsilon$ -Semicarbazon- $\zeta$ -Phenyl- $\beta$ -Methylhexan. Sm. 133° (C. r. 133, 1218 C. 1902 [1] 299).
- $C_{14}H_{21}O_3N$  18) Aethyläther d. 2-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 109° (B. 35, 2799 C. 1902 [2] 989).  
19) Aethyläther d. 6-Acetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 136° (D.R.P. 67568; B. 35, 2799 C. 1902 [2] 989). — \*II, 466.  
20) Diäthyläther d.  $\gamma$ -Benzylidenamido- $\alpha\alpha$ -Dioxypropan. Sd. 157°<sub>11</sub> (B. 34, 1922).  
21) Methyloxydhydrat d. Methylnaphtalanmorpholin. Jodid, Pikrat (A. 307, 183). — \*II, 501.  
C 63,9 — H 8,0 — O 12,1 — N 16,0 — M. G. 263.
- $C_{14}H_{21}O_2N_3$  1) 4-Methyloxydhydrat d. 4-Dimethylamido-3-Keto-1,5-Dimethyl-2-Phenyl-2,3-Dihydropyrazol. Pikrat (C. 1901 [1] 400).
- $C_{14}H_{21}O_2Cl_3$  1) l-Bornylester d. Trichlorbuttersäure. Sd. 195°<sub>19</sub> (C. r. 134, 609 C. 1902 [1] 872).
- $C_{14}H_{21}O_3N$  8) Diäthyläther d.  $\gamma$ -Benzoylamido- $\alpha\alpha$ -Dioxypropan. Fl. (B. 34, 1921).
- $C_{14}H_{21}O_5N$  3) Diäthylester d. 1-[ $\beta$ -Oxyäthyl]-2,5-Dimethylpyrrol-3,4-Dicarbon-säure. Sm. 45° (C. 1901 [1] 72).
- $C_{14}H_{21}O_6N$  \*1) Triäthylester d.  $\beta$ -Cyanbutan- $\alpha\beta\gamma$ -Tricarbonsäure. Sd. 202—204°<sub>21</sub> (Sor. 81, 32 C. 1902 [1] 409).  
3) Galaktopenetidid. Sm. 165° (C. 1898 [2] 695). — \*II, 412.  
4) Glykopenetidid. Sm. 160° (C. 1898 [2] 695). — \*II, 412.
- $C_{14}H_{21}N_2J_2$  1) Di[Jodmethylat] d. 1-Methyl-5-[p-Dimethylamidophenyl]pyrazol. Sm. 211° (B. 35, 41 C. 1902 [1] 425).
- $C_{14}H_{21}N_2S$  \*2)  $\alpha$ -[3-Methylhexahydrophenyl]amido- $\beta$ -Phenylthioharnstoff. Sm. 137 bis 138° (J. pr. [2] 64, 120).



- $C_{14}H_{22}ON_2$  4) Phenylhydrazid d. Caprylsäure. Sm. 102—104° (B. 34, 183).  
 $C_{14}H_{22}O_2N_2$  3) Aethyläther d. 6-Amidoacetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 104—105° (D.R.P. 71154). — \*II, 466.  
 4) Methyamid d. Methylcamphorformenamincarbonsäure. Sm. 130° (C. 1901 [2] 545).  
 $C_{14}H_{22}O_3N_4$  C 57,1 — H 7,5 — O 16,3 — N 19,1 — M. G. 294.  
 1)  $\alpha$ -[ $\beta$ -Diäthylhydrazid] d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 195—196° (C. 1901 [1] 936).  
 $C_{14}H_{22}O_4N_2$  C 59,6 — H 7,8 — O 22,7 — N 9,9 — M. G. 282.  
 1) Aethylester d. Camphorylnitrosamidoessigsäure. Sm. 105° (B. 35, 3662 C. 1902 [2] 1464).  
 $C_{14}H_{22}O_6N_2$  C 53,5 — H 7,0 — O 30,6 — N 8,9 — M. G. 314.  
 1) Methylphenylhydrazon d.  $\alpha$ -Glykoheptose. Sm. 150° (H. 35, 569 C. 1902 [2] 635).  
 $C_{14}H_{22}N_2S$  \*1)  $\alpha$ -Dipropylmethyl- $\beta$ -Phenylthioharnstoff. Sm. 75° (J. pr. [2] 64, 116).  
 $C_{14}H_{23}O_2N$  3) Diäthyläther d.  $\gamma$ -Benzylamido- $\alpha$ -Dioxypropan. Sd. 156°<sub>14</sub> (B. 34, 1922).  
 $C_{14}H_{23}O_2Br$  1) l-Bornylester d.  $\alpha$ -Brombuttersäure. Sd. 168°<sub>19</sub> (C. r. 134, 609 C. 1902 [1] 872).  
 2) l-Bornylester d.  $\alpha$ -Bromisobuttersäure. Sd. 150°<sub>19</sub> (C. r. 134, 609 C. 1902 [1] 872).  
 $C_{14}H_{23}O_3P$  1) Diäthyläther d. Methylphenylmethylphosphorketobetaïn. Sm. 75°. Salze siehe (A. 315, 91).  
 $C_{14}H_{23}O_4N$  3) Aethylester d. Camphorylamidoessigsäure. Fl. HCl (B. 35, 3661 C. 1902 [2] 1463).  
 $C_{14}H_{23}O_5N$  6) Campheroxalsäureäthylester + Ammoniak (C. 1901 [2] 545).  
 $C_{14}H_{23}O_6N_3$  C 56,5 — H 7,7 — O 21,5 — N 14,1 — M. G. 297.  
 1) Lakton d.  $\alpha$ -Oxy-3'-Nitro-4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure (Nitrodimethylanilinphtaleïn). Sm. 175° (Bl. [3] 25, 513).  
 $C_{14}H_{23}N_2S$  \*1)  $\alpha$ -Dipropylmethylamido- $\beta$ -Phenylthioharnstoff. Sm. 122° (J. pr. [2] 64, 117).  
 $C_{14}H_{24}ON_2$  4) Base (aus Suberonisooxim). Sm. 81—82°. (HCl, AuCl<sub>3</sub>) (A. 324, 307 C. 1902 [2] 1507).  
 $C_{14}H_{25}ON$  4)  $\alpha$ -Verbindung (aus Propylbenzylketon u. Benzylidenanilin). Sm. 136° (Soc. 81, 960 C. 1902 [2] 198, 702).  
 $C_{14}H_{25}O_2N$  2) Menthylester d.  $\beta$ -Amidocrotonsäure. Sm. 88—89° (C. 1902 [2] 208).  
 $C_{14}H_{26}ON_2$  2)  $\alpha$ -Cyklogeraniolnitrolpiperidid. Sm. 136—138° (C. 1902 [1] 1295; A. 324, 103 C. 1902 [2] 1200).  
 3) Pulegennitrolpiperidid. Sm. 106—107° (C. 1902 [1] 1295).  
 $C_{14}H_{26}O_{10}N_2$  2) Acetyldichitosamin (M. 23, 131 C. 1902 [1] 1092).  
 $C_{14}H_{26}N_2S_2$  1) Verbindung (aus Formaldehyd, Piperidin u. Rubcanwasserstoff). Sm. 143° (C. 1899 [2] 1025).  
 $C_{14}H_{27}O_2N$  3) Aethylester d. 3-Isoamylamidoheptahydrobenzol-1-Carbonsäure. Sd. 153—155°<sub>11</sub> (A. 319, 336 C. 1902 [1] 351).  
 $C_{14}H_{28}O_2N_2$  5) Di[ $\alpha$ -Oxymethyl- $\gamma$ -Methylbutylamid] d. Oxalsäure. Sm. 99—100° (C. 1902 [1] 400).  
 $C_{14}H_{28}O_3S$  1) Verbindung (aus d.  $\beta$ -Diisoamylsulfon- $\alpha$ -Diäthylbuttersäureäthylester). Sd. 220—230° (B. 34, 2673).  
 $C_{14}H_{28}O_3S_2$  1) Aethylester d.  $\beta$ -Dimerkapto- $\alpha$ -Diäthylbutterdiäthyläthersäure. Fl. (B. 34, 2671).  
 $C_{14}H_{29}O_3S_2$  1)  $\gamma$ -Diamylsulfon- $\beta$ -Ketobutan. Fl. (B. 35, 499 C. 1902 [1] 636).  
 $C_{14}H_{28}O_6S_2$  1) Aethylester d.  $\beta$ -Di[Äthylsulfon]- $\alpha$ -Diäthylbuttersäure. Sm. 84—86° (B. 34, 2671).  
 $C_{14}H_{28}O_{12}N_2$  C 40,4 — H 6,7 — O 46,2 — N 6,7 — M. G. 416.  
 1) Di[ $\beta$ - $\gamma$ -Pentaoxyhexylamid] d. Oxalsäure (Oxamid d. Glucamin) (Bl. [3] 25, 590).  
 $C_{14}H_{28}N_2J_4$  1) Di[Dijodmethylat] d.  $\alpha$ -Di[l-Piperidyl]äthan. Sm. 182° (B. 35, 3051 C. 1902 [2] 1127).  
 $C_{14}H_{28}N_2S_4$  1) Disulfid d. Dipropylamidodithioameisensäure (Tetrapropylthiuran-disulfid). Sm. 50° (B. 35, 820 C. 1902 [1] 712).  
 $C_{14}H_{32}O_2N_2$  C 64,6 — <sup>2</sup>H 12,3 — O 12,3 — N 10,8 — M. G. 260.  
 1) Verbindung (aus 2,6-Dimethylhexahydropyridin u. Wasserstoffsperoxyd) (B. 34, 2431).

- $C_{14}H_2O_2N_2Cl_6$  2) Oktochlor-1,5-Diamido-9,10-Anthrachinon. Sm. 100° (C. 1901 [2] 1137).
- $C_{14}H_4O_8N_6S$  1) Nitril d. 4,6,4',6'-Tetranitrodiphenylsulfid-2,2'-Dicarbonsäure. Sm. 238° (B. 20, 420 C. 1902 [1] 419).
- $C_{14}H_6O_2N_2Cl_4$  1) p-Tetrachlor-1,5-Diamido-9,10-Anthrachinon (C. 1901 [1] 1255; C. 1901 [2] 1137).
- $C_{14}H_6O_2N_2Br_4$  1) p-Tetrabrom-1,8-Diamido-9,10-Anthrachinon (D.R.P. 128845 C. 1902 [1] 506).
- $C_{14}H_6O_5N_2S$  1) 1,2-Anhydrid d. 1-Diazo-9,10-Anthrachinon-2-Sulfonsäure. Zers. bei 142° (B. 35, 2597 C. 1902 [2] 595).
- $C_{14}H_6O_4N_2S_2$  2) 4,8-Dinitro-1,5-Dioxy-9,10-Anthrachinon-p-Disulfonsäure (C. 1901 [2] 1189).
- $C_{14}H_6O_6N_2S_2$  1) 4,8-Dinitro-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfonsäure (C. 1901 [2] 1189).
- $C_{14}H_7O_2NBr_2$  2) p-Dibrom-1-Amido-9,10-Anthrachinon (D.R.P. 128845 C. 1902 [1] 506).
- $C_{14}H_7O_5NS$  1) 1-Nitroso-9,10-Anthrachinon-2-Sulfonsäure. Na (B. 35, 668 C. 1902 [1] 726).
- $C_{14}H_7O_5NS$  1) 4-Nitro-1-Oxy-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 127438 C. 1902 [1] 339).
- $C_{14}H_7O_{13}NS_2$  1) 4- oder 8-Nitro-1,5,8- oder 1,4,5-Trioxy-9,10-Anthrachinon-p-Disulfonsäure (C. 1901 [2] 1189).
- $C_{14}H_7O_{13}N_7S$  1) α-O-Methyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 158° (Soc. 81, 438 C. 1902 [1] 861, 989).
- 2) β-O-Methyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 169° (Soc. 81, 438 C. 1902 [1] 863, 989).
- $C_{14}H_7O_{15}NS_2$  1) 4- oder 8-Nitro-1,3,5,7,8- oder 1,3,4,5,7-Pentaoxy-9,10-Anthrachinon-2,6-Disulfonsäure (C. 1901 [2] 1189).
- $C_{14}H_8O_2N_2Br_2$  2) p-Dibrom-1,5-Diamido-9,10-Anthrachinon. Sm. 274° (D.R.P. 128573 C. 1902 [1] 550).
- 3) isom. p-Dibrom-1,5-Diamido-9,10-Anthrachinon. Sm. 330° (D.R.P. 128573 C. 1902 [1] 550).
- $C_{14}H_8O_4NBr$  1) p-Brom-3-Amido-1,2-Dioxy-9,10-Anthrachinon (Brom-β-Amidoalazarin). Sm. 287° (D.R.P. 126603 C. 1902 [1] 83).
- $C_{14}H_8O_2ClS$  2) Chlorid d. Phenanthren-3-Sulfonsäure. Sm. 108,5° (A. 321, 267 C. 1902 [2] 57).
- 3) Chlorid d. Phenanthren-9-Sulfonsäure. Sm. 125,5° (A. 321, 271 C. 1902 [2] 57).
- $C_{14}H_8O_5NS$  \*1) 1-Amido-9,10-Anthrachinon-2-Sulfonsäure. Na (B. 35, 2598 C. 1902 [2] 595).
- 4) 2-Amido-9,10-Anthrachinon-6-Sulfonsäure (D.R.P. 135561 C. 1902 [2] 1232).
- $C_{14}H_8O_6NS$  4) 4-Amido-1-Oxy-9,10-Anthrachinon-3-Sulfonsäure. Na, K (B. 35, 668 C. 1902 [1] 725; B. 35, 2600 C. 1902 [2] 595).
- 5) 1-Hydroxylamido-9,10-Anthrachinon-2-Sulfonsäure. Na (B. 35, 667 C. 1902 [1] 725).
- $C_{14}H_8O_6N_3S$  2) 1-Hydroxylamidoazo-9,10-Anthrachinon-2-Sulfonsäure. Na (B. 35, 2600 C. 1902 [2] 595).
- $C_{14}H_{10}ON_2Cl_4$  1) 4,4'-Di[Dichlormethyl]azoxybenzol. Sm. 115—116° (Am. 28, 44 C. 1902 [2] 701).
- $C_{14}H_{10}ON_2S$  5) Isorhodanid d. Diphenylamidoameisensäure (Soc. 75, 394). — \*II, 188.
- $C_{14}H_{10}O_2NCl$  1) 10-Chlor-9-Nitro-9,10-Dihydroanthracen. Sm. 163° (B. 34, 221).
- 2) Chlorid d. 3-[4-Methylbenzoyl]pyridin-2-Carbonsäure (M. 22, 116).
- 3) Chlorimid d. Benzolcarbonsäure. Sm. 89° (C. 1902 [2] 359).
- $C_{14}H_{10}O_2N_2Cl_2$  4) s-Di[3-Chlorbenzoyl]hydrazin. Sm. 264° (J. pr. [2] 64, 329).
- $C_{14}H_{10}O_2N_4Br_2$  5) α-β-Di[4-Brombenzoyl]hydrazin. Sm. oberh. 280° (B. 35, 3241 C. 1902 [2] 1045).

- $C_{14}H_{10}O_3N_2Br_4$  1) Dimethyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol. Sm. 214° (B. 35, 1131 C. 1902 [1] 915).
- $C_{14}H_{10}O_3N_3Cl$  1) 3-Nitrobenzylidenhydrazid d. 3-Chlorbenzol-1-Carbonsäure (J. pr. [2] 64, 328).
- $C_{14}H_{10}O_4N_2Cl_2$  2)  $\beta\beta$ -Dichlor- $\alpha\beta$ -Dinitro- $\alpha\alpha$ -Diphenyläthan. Fl. (B. 35, 1531 C. 1902 [1] 1202).
- $C_{14}H_{10}O_4N_2Br_2$  4)  $\alpha\beta$ -Dibrom-2,4-Dinitro- $\alpha\beta$ -Diphenyläthan. Sm. 185—186° u. Zers. (B. 34, 2843).
- $C_{14}H_{10}O_4SHg_2$  1) Diphenylquecksilbersulfid-2,2'-Dicarbonsäure. Na<sub>2</sub>, K<sub>2</sub> (C. 1901 [2] 108; G. 32 [2] 292 C. 1902 [2] 1454).
- $C_{14}H_{10}O_5N_2S$  3) 3-Oxy-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzdiazin-*p*-Sulfonsäure. Sm. noch nicht bei 300°. Na, Ba (B. 34, 1111).
- $C_{14}H_{10}O_7N_2S$  1) 4,8-Diamido-1,5-Dioxy-9,10-Anthrachinon-2-Sulfonsäure (C. 1901 [1] 487).
- $C_{14}H_{10}O_8N_2S_2$  4) 1,5-Diamido-9,10-Anthrachinon-*p*-Disulfonsäure (D. R. P. 126393 C. 1902 [1] 85).
- $C_{14}H_{10}O_8N_4S$  1) Di[4,6-Dinitro-2-Methylphenyl]sulfid. Sm. 210° (R. 20, 429 C. 1902 [1] 418).
- $C_{14}H_{10}O_{12}N_2S_2$  1) 4,8-Diamido-1,3,5,7-Tetraoxy-9,10-Anthrachinon-2,6-Disulfonsäure (C. 1901 [1] 1027).  
2) 4,5-Diamido-1,3,6,8-Tetraoxy-9,10-Anthrachinon-2,7-Disulfonsäure (C. 1901 [1] 1027).
- $C_{14}H_{11}ONBr_4$  1) 3,5,6-Tribrom-2-Oxy-4-Brommethyl-1-Phenylamidomethylbenzol. Erweichen bei 138—140° (B. 35, 148 C. 1902 [1] 468).
- $C_{14}H_{11}ONJ_2$  3) Di[4-Jodphenyl]amid d. Essigsäure. Sm. 138° (D. R. P. 81928). — \*II, 175.
- $C_{14}H_{11}ON_2Cl$  3) Benzylidenhydrazid d. 3-Chlorbenzol-1-Carbonsäure. Sm. 118° (J. pr. [2] 64, 328).
- $C_{14}H_{11}ON_3Cl_2$  1)  $\alpha$ -Nitroso- $\alpha$ -[2-Chlorbenzyl]- $\beta$ -[2-Chlorbenzyliden]hydrazin. Sm. 100—101° u. Zers. (B. 34, 851).  
2) 2,3'-Dichlor-4-Acetylamidoazobenzol. Sm. 165° (C. 1902 [2] 938).
- $C_{14}H_{11}ON_3S$  6) 5-Thiocarbonyl-3-Keto-1,4-Diphenyltetrahydro-1,2,4-Triazol. Sm. 214—215° (220—221°) (B. 34, 2328; B. 35, 974 C. 1902 [1] 880).
- $C_{14}H_{11}O_2NS$  6) Phenylbenzoylamidothiolameisensäure. Sm. 97—99° (C. 1901 [2] 629).
- $C_{14}H_{11}O_2NS_2$  1) Acetat d. Oxydithiodiphenylamin. Sm. 130—133° (D. R. P. 52827). — \*II, 481.
- $C_{14}H_{11}O_2N_3S$  1) *p*-Nitro-1-[4-Amidophenyl]-5-Methylbenzthiazol. Sm. 216—217° (D. R. P. 81711). — \*II, 483.
- $C_{14}H_{11}O_2ClHg$  1) Benzoat d. 6-Oxy-1-Methylphenylquecksilberchlorid. Sm. 241 bis 242° (C. 1901 [1] 453; B. 35, 2859 C. 1902 [2] 1038).
- $C_{14}H_{11}O_3N_3S_2$  1) 5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol-3-Sulfonsäure. K (B. 34, 310).
- $C_{14}H_{11}N_4BrS$  1) 3,5-Diimido-4-[4-Bromphenyl]-2-Phenyltetrahydro-1,2,4-Thio-diazol. Sm. 172° (B. 34, 3135).
- $C_{14}H_{12}ONCl$  \*13) 2-Chlor-4-Methylphenylamid d. Benzolcarbonsäure. Sm. 137 bis 139° (Soc. 81, 1337 C. 1902 [2] 1179).  
2) 3-Chlor-2-Methylphenylamid d. Benzolcarbonsäure. Sm. 170 bis 171° (M. 22, 484).
- $C_{14}H_{12}ONCl_3$  1)  $\gamma\gamma\gamma$ -Trichlor- $\beta$ -Oxy- $\alpha$ -[6-Phenyl-2-Pyridyl]propan +  $1\frac{1}{2}H_2O$ . Sm. 65°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O) (B. 35, 2785 C. 1902 [2] 993).
- $C_{14}H_{12}ONBr$  8) 3,9-Dimethylphenoxazoniumbromid (B. 34, 1624; A. 322, 20 C. 1902 [2] 221).
- $C_{14}H_{12}ON_2S$  \*2)  $\alpha$ -Phenyl- $\beta$ -Benzoylthioharnstoff. Sm. 145—146° (C. 1900 [2] 531; 1901 [2] 198).  
7) 2-Imido-4-Keto-3-[1-Naphtyl]-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 147°. HCl, HJ. — \*II, 335.  
8) 2-Imido-4-Keto-3-[2-Naphtyl]-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 164°. HCl. — \*II, 338.
- $C_{14}H_{12}ON_3Cl$  1)  $\alpha$ -Nitroso- $\alpha$ -[2-Chlorbenzyl]- $\beta$ -[2-Chlorbenzyliden]hydrazin. Sm. 85—86° u. Zers. (B. 34, 852).  
2) 4-Acetylchloramidoazobenzol. Sm. 113,5° (Soc. 81, 982 C. 1902 [2] 360).

- $C_{14}H_{12}ON_4S$  2) 4-Phenylamido-5-Thiocarbonyl-3-Oxy-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 184° (*B.* 34, 2330).
- $C_{14}H_{12}O_2NCl$  3) Methyläther d. 3-Chlor-2-Benzoylamido-1-Oxybenzol. Sm. 130° (*Soe.* 81, 996 *C.* 1902 [2] 697).
- 4) Phenylamido-4-Chlorphenylessigsäure. Sm. 202° u. Zers. (*J. pr.* [2] 65, 271 *C.* 1902 [1] 1214).
- $C_{14}H_{12}O_2NBr$  6) Phenylamid d. 5-Brom-2-Oxy-1-Methylbenzol-3-Carbonsäure. Sm. 125° (*M.* 22, 953 *C.* 1902 [1] 194).
- $C_{14}H_{12}O_2N_2Br_2$  3)  $\alpha\beta$ -Dibrom- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthan (*B.* 35, 2792 *C.* 1902 [2] 995).
- $C_{14}H_{12}O_2N_2S_2$  2) Diamid d. Diphenyldisulfid-2,2'-Dicarbonsäure. Sm. 239° (*D.R.P.* 80713). — \*II, 901.
- $C_{14}H_{12}O_2N_4Cl_2$  2)  $\alpha\beta$ -Dinitroso- $\alpha\beta$ -Di[2-Chlorbenzyl]hydrazin. Sm. 50—51° (*B.* 34, 850).
- $C_{14}H_{12}O_3N_2H_2g$  1) 3-Acetat d. 4-Oxyazobenzol-3-Quecksilberoxydhydrat. Sm. 197—198° (*C.* 1901 [1] 452; *B.* 35, 2863 *C.* 1902 [2] 1039).
- $C_{14}H_{12}O_3N_3Cl$  1) 5'-Chlor-2'-Nitro-4-Acetylamidodiphenylamin. Sm. 221° (*B.* 34, 1103).
- $C_{14}H_{12}O_4N_2S_2$  \* 1) Di[2-Nitrobenzyl]disulfid. Sm. 110—111° (*B.* 20, 137).
- $C_{14}H_{12}O_4N_2S_3$  1) Verbindung (aus 4'-Dimethylamido-4-Oxydiphenylamin). +  $NaHSO_3$  +  $2H_2O$  (*D.R.P.* 135952 *C.* 1902 [2] 1234).
- $C_{14}H_{12}O_4N_2As_2$  1) 3,3'-Dinitro-4,4'-Dimethylarsenobenzol. Zers. bei 165° (*A.* 320, 316 *C.* 1902 [1] 921).
- $C_{14}H_{12}O_4Cl_2S_2$  2)  $\alpha\beta$ -Di[4-Chlorphenylsulfon]äthan. Sm. 255° (*J. pr.* [2] 66, 139 *C.* 1902 [2] 796).
- $C_{14}H_{12}O_4Br_2S_2$  1)  $\alpha\beta$ -Di[4-Bromphenylsulfon]äthan. Sm. 261° (*J. pr.* [2] 66, 140 *C.* 1902 [2] 796).
- $C_{14}H_{12}O_5N_2S_2$  3) Aldehyd d. 4-Oxy-3-Methylazobenzol-5-Carbonsäure-4'-Sulfonsäure.  $Na + 2H_2O$  (*B.* 34, 2101).
- $C_{14}H_{12}O_5N_4S$  1)  $\beta$ -Tetraamido-9,10-Anthrachinon- $\beta$ -Sulfonsäure (*D.R.P.* 126804, 127341 *C.* 1902 [1] 86).
- $C_{14}H_{12}O_5NBr$  1)  $\alpha$ -Brom- $\delta$ -[1,2-Phthalimido]butan- $\alpha\alpha$ -Dicarbonsäure +  $2H_2O$ . Sm. bei 100° u. Zers. (*B.* 34, 461).
- $C_{14}H_{12}O_5N_3S$  4) Azobenzol-4-Sulfonsäure-4'-Oxyessigsäure.  $K$ , ( $Na$ ,  $K$ ),  $Ba$  (*B.* 34, 3937 *C.* 1902 [1] 117).
- $C_{14}H_{12}O_7N_2S_2$  2) 4,6-Dinitro-2-Methylphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 108—109° (*B.* 35, 1444 *C.* 1902 [1] 1201).
- $C_{14}H_{12}O_8N_2S_2$  2)  $\alpha\beta$ -Di[3-Nitrophenylsulfon]äthan. Sm. 226° (*A.* 294, 244). — \*II, 473.
- $C_{14}H_{12}N_4Br_2S_2$  1)  $\alpha$ -Amido- $\alpha$ -[4-Bromphenyl]imido- $\alpha$ -Merkaptomethan. Sm. 209 bis 211° .  $2HBr$  (*B.* 34, 3133).
- $C_{14}H_{13}ON_2Cl$  12) Amid d. Phenylamido-4-Chlorphenylessigsäure. Sm. 145° (*J. pr.* [2] 65, 270 *C.* 1902 [1] 1214).
- $C_{14}H_{13}ON_2Br$  6) 5-Brom-2-Oxy-3-Phenylhydrazonmethyl-1-Methylbenzol. Sm. 137—138° (*B.* 34, 2102).
- $C_{14}H_{13}ON_3S$  \* 2)  $\alpha$ -[2-Oxybenzyliden]amido- $\beta$ -Phenylthioharnstoff (*B.* 35, 3237 *C.* 1902 [2] 1044).
- $C_{14}H_{13}OCl_2P$  1) Dichlorid d. 4- $\beta$ -Phenyläthyl]phenylphosphinsäure. Sm. 75° (*A.* 315, 50).
- $C_{14}H_{13}O_2N_2Br$  \* 2) 3-Methyläther d.  $\alpha$ -[4-Bromphenyl]- $\beta$ -[3,4-Dioxybenzyliden]-hydrazin. Sm. 145° (*A.* 324, 319 *C.* 1902 [2] 1505).
- $C_{14}H_{13}O_2N_3S_2$  1) 2-Nitrobenzylester d.  $\beta$ -Phenylhydrazidodithioameisensäure. Sm. 142° (*B.* 34, 1123).
- 2) 4-Nitrobenzylester d.  $\beta$ -Phenylhydrazidodithioameisensäure. Sm. 134° (*B.* 34, 1122).
- $C_{14}H_{13}O_3NS$  9) 2-Acetylamidodiphenylsulfon. Sm. 132° (*B.* 34, 1153).
- 10) 4-Acetylamidodiphenylsulfon. Sm. 195° (*B.* 34, 1155).
- $C_{14}H_{13}O_3N_3Cl$  1)  $\alpha$ -Chlorid d.  $\alpha$ -[1-Naphtyl]hydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbon-säureäthylester. Sm. 115° (*B.* 34, 2324).
- 2)  $\alpha$ -Chlorid d.  $\alpha$ -[2-Naphtyl]hydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbon-säureäthylester. Sm. 139° (*B.* 34, 2325).
- $C_{14}H_{13}O_4NS$  10) Acetyldiphenylaminsulfonsäure.  $Ba$  (*Z. Ang.* 1899, 1028). — \*II, 323.

- $C_4H_9O_4NS$  11) 2-Benzoylamido-1-Methylbenzol-4-Sulfonsäure. Sm. 203° (*B.* 34, 2993).
- $C_4H_9O_8NS$  2) 2-Methylphenylester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 68—69° (*B.* 35, 1444 *C.* 1902 [1] 1201).
- 3) 3-Methylphenylester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 63° (*B.* 35, 1444 *C.* 1902 [1] 1201).
- 4) 4-Methylphenylester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 95° (*B.* 35, 1444 *C.* 1902 [1] 1201).
- $C_4H_9O_8N_2S$  4) Azobenzol-4-Amidoessigsäure-4'-Sulfonsäure. HCl, Na, Ba (*B.* 35, 581 *C.* 1902 [1] 581).
- $C_4H_9O_8NS$  1) 4-Nitro-2-Methoxyphenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 145° (*B.* 34, 2999).
- $C_4H_9O_8N_2P$  2) Di[2- oder 3-Nitro-4-Methylphenyl]phosphinsäure. Sm. 194° (*A.* 315, 63).
- $C_4H_9N_2ClS$  2) s-Phenyl-4-Chlor-3-Methylphenylthioharnstoff. Sm. 132,5 bis 133° (*B.* 20, 201; *B.* 35, 3702 *C.* 1902 [2] 1448; *B.* 35, 3715 *C.* 1902 [2] 1449). — II, 479.
- $C_4H_4ONBr_3$  1) 3, 6-Dibrom-5-Oxy-2, 4-Dimethylbromphenylat d. Pyridin. Zers. bei 237—238° (*B.* 35, 144 *C.* 1902 [1] 467; *B.* 35, 2306 *Ann.*).
- $C_4H_4ON_2S$  8) s-Phenyl-4-Oxymethylphenylthioharnstoff. Sm. 157—158° (*J. pr.* [2] 64, 264).
- 9) Methyläther d. s-Phenyl-4-Oxyphenylthioharnstoff. Sm. 180° (*C.* 1900 [2] 530; 1901 [2] 198).
- $C_4H_4OClP$  1) Chlorid d. Di[4-Methylphenyl]phosphinsäure. Sd. oberh. 360° (*A.* 315, 63).
- $C_4H_4O_2NCl$  1) Benzoat d. Pyridin- $\beta$ -Oxychloräthylat. 2 + PtCl<sub>4</sub> + AuCl<sub>3</sub> (*Ar.* 240, 79 *C.* 1902 [1] 478).
- $C_4H_4O_2N_2S$  2)  $\beta$ -[2-Nitro-4-Methylphenyl]amido- $\alpha$ -Phenylthioharnstoff. Sm. 188° u. Zers. (*Soc.* 79, 1143).
- $C_4H_4O_2S_3Te$  1) Dimethyläther d. Ditellurodi[4-Oxyphenyl]trisulfid. Sm. 61° (*A.* 315, 13).
- $C_4H_4O_3N_2S$  11) Diacetylderivat d. 2-[2-Methylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 91—92° (*Am.* 28, 150 *C.* 1902 [2] 794).
- 12) Diacetylderivat d. 2-[4-Methylphenyl]imido-4-Ketotetrahydrothiazol. Sm. 163—164° (*Am.* 28, 152 *C.* 1902 [2] 794).
- $C_4H_4O_4N_2S$  9) 4-Nitro-2-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 174° (*B.* 35, 1440 *C.* 1902 [1] 1200).
- 10) 2-Nitro-4-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 145—146° (*B.* 35, 1441 *C.* 1902 [1] 1200).
- 11) 3-Nitro-4-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 164° (*D. R. P.* 135016 *C.* 1902 [2] 1166).
- 12) 2-Nitro-2,5-Dimethylphenylamid d. Benzolsulfonsäure. Sm. 174—175° (*Bl.* [3] 15, 1037). — \*II, 315.
- $C_4H_4O_5N_2S$  2) 2-Naphtylsulfonamidoacetylamidoessigsäure + H<sub>2</sub>O. Sm. 180 bis 182° (wasserfrei). Cu (*B.* 35, 3786 *C.* 1902 [2] 1470).
- 3) 2',4'-Dioxy-2,4-Dimethylazobenzol-6-Sulfonsäure (*B.* 35, 3766 *C.* 1902 [2] 1453).
- $C_4H_4N_3Br_2S_2$  1) Disulfid d.  $\alpha$ -Brom- $\alpha$ -Amido- $\alpha$ -Phenylbromamido- $\alpha$ -Merkapto-methan. Sm. 208° u. Zers. (*B.* 34, 3131).
- $C_4H_4ClSP$  1) Chlorid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 96° (*A.* 315, 64).
- $C_4H_5O_2NS$  \*8) 4-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 117° (*B.* 35, 1441 *C.* 1902 [1] 1200).
- 11) Phenylamidomethyl-4-Methylphenylsulfon. Sm. 137° (*J. pr.* [2] 63, 171).
- 12) Phenylamid d. 1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 119° (*C.* 1901 [1] 385).
- 13) 2-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 108° (*B.* 35, 1440 *C.* 1902 [1] 1200).
- 14) 3-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 114° (*B.* 35, 1441 *C.* 1902 [1] 1200).
- $C_4H_5O_3NS$  9) 1-Methylbenzylamidobenzol-3-Sulfonsäure + H<sub>2</sub>O. Na + 2H<sub>2</sub>O, Ba + 3H<sub>2</sub>O (*J. pr.* [2] 63, 418).



- $C_{14}H_{15}O_3N_2Br_3$  1) Aethyläther d. 2,4-Diketo-3- $[\beta\gamma$ -Dibrompropyl]-1-[ $\beta$ -Brom-4-Oxyphenyl]tetrahydroimidazol. Sm. 155—156° (*J. pr.* [2] 66, 254 *C. 1902* [2] 1125).
- $C_{14}H_{15}O_3N_2S$  6) 4-Aethylamidoazobenzol-2-Sulfonsäure. Zers. bei 165° (*J. pr.* [2] 63, 415).
- $C_{14}H_{15}O_4NS$  2) Aethyl ester d. 2-Naphtylsulfonamidoessigsäure. Sm. 74° (*B.* 35, 3780 *C. 1902* [2] 1469).
- $C_{14}H_{15}O_4NS_2$  3) Diäthylester d. Phenylrhodanmalonsäure. Fl. (*C. 1902* [2] 578).
- 1) Imid d. 1-Methylbenzol-2-Sulfonsäure (*C. 1901* [2] 1185).
- 2) Imid d. 1-Methylbenzol-4-Sulfonsäure (*C. 1901* [2] 1185).
- $C_{14}H_{15}O_5NS_2$  1) Di[4-Methylphenylsulfon]hydroxylamin. Sm. 125° u. Zers. (*J. pr.* [2] 63, 173).
- $C_{14}H_{16}ONBr$  1) 5-Brom-6-Phenylamido-4-Keto-2,2-Dimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 159—160° (*A.* 322, 252 *C. 1902* [2] 270).
- $C_{14}H_{16}O_2N_2S$  7) 3-Amido-4-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 160° (*D.R.P.* 135016 *C. 1902* [2] 1165).
- $C_{14}H_{16}O_3NCl$  1) Aethylester d. 2,4-Dimethylphenylamidomukochlorsäure. Sm. 114° (*B.* 34, 519).
- $C_{14}H_{16}O_3N_2Br_2$  1) Aethyläther d. 2,4-Diketo-3- $[\beta\gamma$ -Dibrompropyl]-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 129—130° (*J. pr.* [2] 66, 252 *C. 1902* [2] 1124).
- $C_{14}H_{16}O_4N_2S$  3) 4-Dimethylamido-4'-Oxydiphenylamin- $\beta$ -Sulfonsäure (*D.R.P.* 129325 *C. 1902* [1] 690).
- 4) isom. 4-Dimethylamido-4'-Oxydiphenylamin- $\beta$ -Sulfonsäure (*D.R.P.* 132221 *C. 1902* [2] 81).
- $C_{14}H_{16}O_4N_4S_2$  1) Amid d. 2,2'-Dimethylazobenzol-4,4'-Disulfonsäure. Sm. oberh. 250° (*A.* 221, 185). — IV, 1380.
- 2) Amid d. 2,2'-Dimethylazobenzol-5,5'-Disulfonsäure. Sm. 300° (319°).  $K_2$  (*A.* 203, 76; 270, 373). — IV, 1380.
- 3) Amid d. 4,4'-Dimethylazobenzol-3,3'-Disulfonsäure. Sm. 270° (*A.* 203, 82; 221, 210). — IV, 1381.
- $C_{14}H_{16}O_5N_2S$  1)  $\alpha$ -[4-Methoxyl- $\alpha$ -Oxybenzyl]- $\beta$ -[4-Sulfofenyl]hydrazin. Sm. 155—165° u. Zers.  $Na + 3H_2O$  (*B.* 35, 2006 *C. 1902* [2] 196).
- $C_{14}H_{16}NSP$  1) Amid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 139° (*A.* 315, 67).
- $C_{14}H_{17}ONBr_2$  \*1) Piperidid d.  $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 189° u. Zers. (*A.* 320, 92).
- $C_{14}H_{17}O_2N_2P$  \*2) Di[4-Methylphenylamid] d. Phosphorsäure. Sm. 193—194° (*Soc.* 81, 1369 *C. 1902* [2] 1197).
- $C_{14}H_{17}O_3NS$  3) 1-Diäthylamidonaphtalin-5-Sulfonsäure +  $H_2O$  (*B.* 35, 982 *C. 1902* [1] 877).
- $C_{14}H_{17}O_3NS_2$  1) Benzoylamidothioformiat d.  $\alpha$ -Merkaptoisobuttersäureäthylester. Sm. 113—114° (*C. 1902* [2] 578).
- $C_{14}H_{17}O_3N_2Br$  1) Aethyläther d. 2,4-Diketo-3- $[\beta$ - oder  $\gamma$ -Brompropyl]-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 167—168° (*J. pr.* [2] 66, 250 *C. 1902* [2] 1124).
- $C_{14}H_{18}O_3NBr$  1) Acetat d. 3-Brom-5-Acetylamido-2-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 157—158° (*A.* 310, 111). — \*II, 461.
- $C_{14}H_{18}O_3N_2J_2$  1) Dijodäthylat d. 1-Acetyl-2,3-Diketo-1,2,3,4-Tetrahydro-1,4-Benzdiazin. Sm. 115° (*G.* 31 [1] 25).
- $C_{14}H_{19}ONS_2$  1) Dipropyläther d. Benzoylimidodimerkaptomethan. Sd. 238 bis 239°<sub>20</sub> (*Am.* 26, 195).
- $C_{14}H_{19}O_3NS$  1) Aethyläther d. Merkaptohydrocotarnin. Sm. 55° (*B.* 35, 1752 *C. 1902* [2] 68).
- $C_{14}H_{19}O_3N_2J$  1) Jodmethylester d. Hydrocotarnincarbonsäureamid. Sm. 235° (*B.* 35, 1747 *C. 1902* [2] 68).
- $C_{14}H_{20}ON_2S$  2) Aethyläther d. Benzoylimidodiäthylamidomerkaptomethan (Benzoyldiäthylthioläthylpseudothioharnstoff). Sm. 70° (*Am.* 26, 413).
- $C_{14}H_{20}O_2NCl$  1) Aethyläther d. 6-Chloracetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 154° (*D.R.P.* 71154). — \*II, 466.
- $C_{14}H_{20}O_2NBr$  1) Aethyläther d. 6-Bromacetylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 145° (*D.R.P.* 71154). — \*II, 466.
- $C_{14}H_{20}O_2NJ$  1) Jodmethylester d. 1,2,3,4-Tetrahydro-1-Chinolylessigsäureäthylester. Zers. bei 118—119° (*A.* 318, 110; *B.* 35, 768 *C. 1902* [1] 719).

- $C_{14}H_{20}O_2NJ$  2) Jodmethylat d. 1,2,3,4-Tetrahydro-2-Isochinolylessigsäure-äthylester. Sm. 156—157° (*B.* 34, 3988 *C.* 1902 [1] 210; *B.* 35, 1077 *C.* 1902 [1] 938).
- $C_{14}H_{20}O_2N_2S$  1) S-2-Methylphenylamid d. Amidothioameisensäure-N-Carbonsäureamylester. Sm. 96—97° (*Soc.* 79, 911).
- $C_{14}H_{20}O_2N_2S_2$  1) 4-Nitrobenzylester d. Dipropylamidodithioameisensäure. Sm. 60° (*C. r.* 134, 715 *C.* 1902 [1] 977).
- $C_{14}H_{20}O_3NJ$  3) Jodmethylat d. Methylanhalonidin +  $H_2O$ . Sm. 199° (*B.* 34, 3014).
- $C_{14}H_{20}O_4N_2S$  1) Ammoniumbase +  $2H_2O$  (aus d. Jodmethylat d. Hydrocotarninthiocarbonsäureamid). Sm. 141—142° (wasserfrei) (*B.* 35, 1751 *C.* 1902 [2] 68).
- $C_{14}H_{21}O_2NS$  1) 1-Phenylsulfon-2-Methyl-5-Aethylhexahydropyridin. Fl. (*B.* 34, 2429).
- 2) isom. 1-Phenylsulfon-2-Methyl-5-Aethylhexahydropyridin. Sm. 66° (*B.* 34, 2429).
- $C_{14}H_{21}O_3N_2Br$  1) Diacetylderivat d. Verb.  $C_{10}H_{17}O_2N_2Br$ . Sm. 139° (*Soc.* 79, 656).
- $C_{14}H_{22}OClP$  1) Diäthyl- $\beta$ -Ketopropyl-4-Methylphenylphosphoniumchlorid.  $2 + PtCl_4$  (*A.* 315, 91).
- $C_{14}H_{22}O_2NCl$  1) Chlormethylat d. Acetylmethylephedrin.  $2 + PtCl_4$  (*Ar.* 240, 492 *C.* 1902 [2] 1327).
- $C_{14}H_{22}O_2N_2S$  2) Diäthyläther d.  $\alpha$ -[ $\gamma\gamma$ -Dioxypropyl]- $\beta$ -Phenylthioharnstoff. Sm. 85° (*B.* 34, 1919).
- $C_{14}H_{22}O_3ClAs$  1) Äthylester d. Diäthylphenylchlorarsoniumessigsäure (*A.* 320, 298 *C.* 1902 [1] 920).
- $C_{14}H_{22}O_4N_2S_2$  1) Diäthylester d. 1,4-Di[Thiosemicarbazol]hexahydrobenzol-2,5-Dicarbonsäure. Sm. noch nicht bei 275° (*B.* 35, 2605 *C.* 1902 [2] 572).
- $C_{14}H_{28}O_3N_2S$  2) 4,4'-Di[Dimethylamido]-2-Methyltriphenylmethan-5-Sulfonsäure (D.R.P. 128086 *C.* 1902 [1] 447).

## — 14 V —

- $C_{14}H_7O_6NBr_2S$  1)  $\beta$ -Dibrom-1-Amido-9,10-Anthrachinon- $\beta$ -Sulfonsäure (D.R.P. 128845 *C.* 1902 [1] 506).
- $C_{14}H_8O_8N_2Cl_2S_2$  1)  $\beta$ -Dichlor-1,5-Diamido-9,10-Anthrachinon- $\beta$ -Disulfonsäure (D.R.P. 126676 *C.* 1902 [1] 86).
- $C_{14}H_8O_8N_2Br_2S_2$  1)  $\beta$ -Dibrom-1,5-Diamido-9,10-Anthrachinon- $\beta$ -Disulfonsäure (D.R.P. 126676 *C.* 1902 [1] 86).
- $C_{14}H_{14}O_2NBrS$  1) Phenylamid d. 6-Brom-1,3-Dimethylbenzol-4-Sulfonsäure. Sm. 152° (*B.* 35, 3756 *C.* 1902 [2] 1452).
- 2) Phenylamid d. 4-Brom-1,3-Dimethylbenzol-5-Sulfonsäure. Sm. 179° (*B.* 35, 3756 *C.* 1902 [2] 1452).
- $C_{14}H_{14}O_3N_3ClS$  1)  $\beta$ -Chlor- $\beta$ -Dimethylamidoazobenzol-4-Sulfonsäure (aus 3-Chlor-1-Dimethylamidobenzol).  $Ba + 3H_2O$  (*B.* 35, 3542 *C.* 1902 [2] 1504).
- $C_{14}H_{10}O_3N_2JS$  1) Jodmethylat d. Hydrocotarninthiocarbonsäureamid. Sm. 203° (*B.* 35, 1750 *C.* 1902 [2] 68).

 $C_{16}$ -Gruppe.

- $C_{15}H_{12}$  7) isom. Methylphenanthren. Sm. 90—95° (*B.* 33, 2267). — \*II, 123.
- $C_{16}H_{14}$  4)  $\alpha\alpha$ -Diphenylpropan. Sm. 52°; Sd. 169—170°<sub>28</sub> (280—281°) (*B.* 35, 2647 *C.* 1902 [2] 587; *C. r.* 135, 533 *C.* 1902 [2] 1209).
- 5)  $\alpha\beta$ -Diphenylpropan. Sm. 82—83°; Sd. 183°<sub>26</sub> (*B.* 35, 2648 *C.* 1902 [2] 587).
- 6) 9-Aethylfluoren. Sm. 107—108°; Sd. 165—166°<sub>13</sub> (*B.* 35, 763 *C.* 1902 [1] 814).
- $C_{15}H_{16}$  \*1)  $\alpha\beta$ -Diphenylpropan. Sd. 166—167°<sub>28</sub> (*B.* 35, 2648 *C.* 1902 [2] 587).
- \*2)  $\alpha\gamma$ -Diphenylpropan. Sd. 300° (*B.* 34, 1293; *Bl.* [3] 25, 240).
- 9)  $\alpha\alpha$ -Diphenylpropan. Sd. 153—154°<sub>20</sub> (*B.* 35, 2648 *C.* 1902 [2] 587; *C. r.* 135, 533 *C.* 1902 [2] 1209).
- 10)  $\alpha$ -Phenyl- $\alpha$ -(4-Methylphenyl)äthan. Sd. 291—293° (*B.* 23, 3274; 24, 2788). — \*II, 115.

- $C_{15}H_{22}$  5) Trimethyldicyklododekatrien. *Sd.* 85—87°<sub>15</sub> (*B.* 35, 2136 *C.* 1902 [2] 187).  
 6) Calamen. *Sd.* 144°<sub>15,5</sub> (151°<sub>22</sub>) (*B.* 35, 3194 *C.* 1902 [2] 1255; *B.* 35, 3199 *C.* 1902 [2] 1256).  
 7) Kohlenwasserstoff (aus Calmusöl). *Sd.* 146°<sub>19</sub> (*B.* 35, 3194 *C.* 1902 [2] 1255).  
 $C_{15}H_{24}$  \*3) d-Cadinen. *Sd.* 153—154°<sub>26</sub> (*Bl.* [3] 25, 931; *Ar.* 240, 291 *C.* 1902 [2] 124).  
 \*5) Caryophyllen. *Sd.* 260—261° (*J. pr.* [2] 66, 54 *C.* 1902 [2] 520).  
 \*8) Cloven (*C.* 1902 [1] 42).  
 \*38) Zingiberen. *Sd.* 160—161°<sub>32</sub> (*C.* 1901 [2] 1007, 1226).  
 42) 4-Oktyl-1-Methylbenzol<sup>p</sup> *Sd.* 269—271° (*J. r.* 27, 305). — \*II, 23.  
 43) Aromadendren. *Sd.* 260—265°<sub>760</sub> (*C.* 1902 [1] 351).  
 44) Sesquiterpen (aus Sandelholzöl). *Sd.* 139—141°<sub>26</sub> (*Ar.* 240, 290 *C.* 1902 [2] 124).  
 $C_{15}H_{30}$  4) Pentadekanaphten. *Sd.* 160—162°<sub>50</sub> (*Am.* 25, 282).  
 5) Kohlenwasserstoff (aus Bienenwachs). *Sd.* 220—222° (*R.* 20, 76).  
 $C_{15}H_{32}$  \*1) Pentadekan. *Sd.* 256—257°<sub>760</sub> (*Am.* 28, 173 *C.* 1902 [2] 1081).

— 15 II —

- $C_{15}H_8O_4$  \*3) 9,10-Phenanthrenchinon-3-Carbonsäure. *Sm.* noch nicht bei 310° (*A.* 321, 355 *C.* 1902 [2] 62).  
 7) 9,10-Phenanthrenchinon-2-Carbonsäure. *Sm.* oberh. 300° (*A.* 321, 356 *C.* 1902 [2] 62).  
 $C_{15}H_9N$  3) Thebenidin. *Sm.* 144—148°. (2HCl, PtCl<sub>4</sub>) (*B.* 34, 768).  
 4) Nitril d. Phenanthren-2-Carbonsäure. *Sm.* 105° (*A.* 321, 328 *C.* 1902 [2] 60).  
 5) Nitril d. Phenanthren-3-Carbonsäure. *Sm.* 102° (*A.* 321, 323 *C.* 1902 [2] 60).  
 6) Nitril d. Phenanthren-9-Carbonsäure. *Sm.* 103° (*A.* 321, 327 *C.* 1902 [2] 60).  
 $C_{15}H_{10}O$  \*1)  $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpropin (Benzoylphenylacetylen). *Sm.* 48°; *Sd.* 195—200°<sub>13</sub> (*Bl.* [3] 25, 312).  
 $C_{15}H_{10}O_2$  \*10) Methyläther d. Morphenol. *Sm.* 65° (*Soc.* 79, 578).  
 \*14) Phenanthren-9-Carbonsäure. *Sm.* 250° (*A.* 321, 328 *C.* 1902 [2] 60).  
 \*15) Phenanthren-3-Carbonsäure. *Sm.* 269° (*A.* 321, 325 *C.* 1902 [2] 60).  
 17)  $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpropin (Benzoylphenylacetylen). *Sm.* 49,5°; *Sd.* 200°<sub>15</sub> (*R.* 20, 46 *C.* 1902 [1] 46).  
 18) Phenanthren-2-Carbonsäure. *Sm.* 254° (*A.* 321, 329 *C.* 1902 [2] 60).  
 $C_{15}H_{10}O_3$  \*6) 7-Oxy-4-Phenyl-1,2-Benzpyron. *Sm.* 243—244° (*B.* 34, 356).  
 \*16) Methyläther d. 3-Oxy-9,10-Phenanthrenchinon. *Sm.* 204° (204° bis 205°) (*A.* 321, 289 *C.* 1902 [2] 58; *A.* 322, 145 *C.* 1902 [2] 282).  
 \*18) Fluoren-9-Ketocarbonsäure + H<sub>2</sub>O. *Sm.* 150—151° (*B.* 35, 760 *C.* 1902 [1] 813).  
 20) 2-[3-Oxyphenyl]-1,4-Benzpyron. *Sm.* 208° (*B.* 34, 1692).  
 21) Methyläther d. 2-Oxy-9,10-Phenanthrenchinon. *Sm.* 170—171° (*A.* 322, 163 *C.* 1902 [2] 283).  
 22) Phenylester d. Benzfuran-1-Carbonsäure. *Sm.* 101° (*B.* 34, 773). — \*II, 980.  
 $C_{15}H_{10}O_4$  \*17) 2-Methyläther d. 1,2-Dioxy-9,10-Anthrachinon. *Sm.* 230—231°. Na (*A.* 318, 369).  
 39) 5-Oxy-2-Keto-1-[3-Oxybenzyliden]-1,2-Dihydrobenzofuran. Zers. bei 240° (*B.* 30, 300).  
 $C_{15}H_{10}O_5$  \*7) Trioxymethylanthrachinon (aus Aloë) (*C. r.* 134, 1111 *C.* 1902 [2] 62).  
 \*9) Apigenin (*Soc.* 81, 1175 *C.* 1902 [2] 704).  
 35) 5-Oxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran (*B.* 30, 299).  
 36) 7-Oxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. *Sm.* 326—327° (*B.* 34, 3725 *C.* 1902 [1] 46).  
 37) 7-Oxy-2-[3,5-Dioxyphenyl]-1,4-Benzpyron. *Sm.* 329° (*B.* 35, 2586 *C.* 1902 [2] 1054).  
 38) 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. *Sm.* 281° (*B.* 34, 1455).  
 39) 5,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. *Sm.* 299° (*B.* 34, 111).  
 40) Nataloëmodin. *Sm.* 220,5° (*C. r.* 134, 1113 *C.* 1902 [2] 62).

- $C_{15}H_{10}O_5$  41) Dibenzoylcarbonat (*C.* 1901 [1] 347).  
 $C_{15}H_{10}O_6$  \*4) Luteolin (Digitoflavon) (*B.* 34, 1453, 3577).  
 16) 5,7-Dioxy-2-[2,4-Dioxyphenyl]-1,4-Benzpyron (Lotoflavin) (*C.* 1901 [2] 594).  
 17) 7-Oxy-2-[3,4,5-Trioxyphenyl]-1,4-Benzpyron +  $H_2O$ . Sm. 340° n. Zers. (wasserfrei) (*B.* 35, 2546 *C.* 1902 [2] 596).  
 18) Kämpferol +  $H_2O$ . Sm. 271° (276–277°). K, HJ,  $H_2SO_4$  (*B.* 34, 3723 Ann. *C.* 1902 [1] 46; *Soc.* 81, 475, 586 *C.* 1902 [1] 1356).  
 19) Scutellarein. Sm. oberh. 300°.  $H_2SO_4$  (*M.* 22, 693).  
 20) Farbstoff (aus Robinin). Sm. 271–272°.  $H_2SO_4$  (*C.* 1901 [1] 1168; 1901 [2] 121).  
 $C_{15}H_{10}O_8$  \*1) Myricetin +  $H_2O$ . Sm. 355–360° (wasserfrei). K (*Soc.* 81, 203 *C.* 1902 [1] 528, 815).  
 2) Quercetagetin (siehe auch  $C_{27}H_{22}O_{13}$ ). Sm. 318–320°. K,  $H_2SO_4$  (*C.* 1902 [1] 1060).  
 $C_{15}H_{11}N_3$  8) Pr-Methylindophenazin. Sm. 148° (*B.* 34, 4011 *C.* 1902 [1] 205).  
 9) N-Methyl-ps-Indophenazin. Sm. 175–176°. HCl (*B.* 34, 4013 *C.* 1902 [1] 205).  
 $C_{15}H_{12}O$  \*8) Methyläther d. 3-Oxyphenanthren. Sm. 59° (61°). Pikrat (*B.* 34, 4006 *C.* 1902 [1] 203; *A.* 321, 283 *C.* 1902 [2] 57).  
 10)  $\gamma$ -Oxy- $\alpha$ - $\gamma$ -Diphenylpropin. Sd. 220–222°<sub>20</sub> (*C. r.* 134, 356 *C.* 1902 [1] 629).  
 11) Methyläther d. 2-Oxyphenanthren. Sm. 99° (100–101°). Pikrat. (*B.* 34, 4003 *C.* 1902 [1] 202; *A.* 321, 306 *C.* 1902 [2] 59).  
 $C_{15}H_{12}O_2$  \*2)  $\alpha$ -Oxy- $\gamma$ -Keto- $\alpha$ - $\gamma$ -Diphenylpropen ( $\alpha$ -Oxybenzylidenacetophenon). Sm. 77–78°. Cu (*C.* 1902 [1] 37).  
 \*11) Methylloxanthranol. Sm. 102,5° (*A.* 323, 236 *C.* 1902 [2] 802).  
 \*21)  $\alpha\beta$ -Diphenylakrylsäure. Sm. 172° (*G.* 31 [2] 77).  
 \*22) Allo- $\alpha\beta$ -Diphenylakrylsäure. Sm. 137°. Anilinsalz (*G.* 31 [2] 77).  
 \*23)  $\alpha\beta$ -Diphenyläthen-2-Carbonsäure.  $NH_4 + H_2O$ , Ag (*B.* 34, 2829).  
 \*25) Lakton d.  $\alpha$ -Oxy- $\alpha\beta$ -Diphenyläthan- $\beta^2$ -Carbonsäure. Sm. 89° (*B.* 34, 2832).  
 $C_{15}H_{12}O_3$  \*16)  $\alpha$ -Oxy- $\beta$ -Phenylakrylphenyläthersäure. Sm. 181° (*B.* 35, 3555 *C.* 1902 [2] 1311).  
 40) 4,7-Dioxy-2-Phenyl-1,4-Benzpyran. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ), Pikrat (*B.* 34, 3892 *C.* 1902 [1] 122).  
 41) Lakton d. 1-[ $\alpha$ -Oxy- $\gamma$ -Ketobutyl]naphtalin-8-Carbonsäure (Naphthaliddimethylketon). Sm. 76–78° (*M.* 22, 815).  
 $C_{15}H_{12}O_4$  \*4) Dimethyläther d. 1,7-Dioxyxanthon. Sm. 149,5° (*A.* 318, 367).  
 29) 4,5,7-Triox-2-Phenyl-1,4-Benzpyran. HCl (*B.* 34, 3896 *C.* 1902 [1] 122).  
 30) 4,7,8-Triox-2-Phenyl-1,4-Benzpyran (*B.* 34, 3896 *C.* 1902 [1] 122).  
 31)  $\alpha$ -Oxy- $\beta$ -[2-Oxyphenyl]akryl- $\alpha$ -Phenyläthersäure. Sm. 191° (*B.* 35, 3557 *C.* 1902 [2] 1311).  
 32) Methylenester d. Benzolcarbonsäure. Sm. 99°; Sd. 255° u. Zers. (*C. r.* 133, 371).  
 33) Diphenylester d. Malonsäure. Sm. 50° (*B.* 35, 3455 *C.* 1902 [2] 1304).  
 34) Dibenzat d. Dioxymethan (Methylendibenzat) (*C. r.* 133, 1213 *C.* 1902 [1] 256).  
 $C_{15}H_{12}O_5$  13) Methylster d. 2-[2-Oxybenzoxyl]benzol-1-Carbonsäure. Sm. 86° (D.R.P. 43713). — \*II, 891.  
 $C_{15}H_{12}O_6$  \*1) Cyanomaklurin (*Soc.* 81, 1173 *C.* 1902 [2] 199).  
 $C_{15}H_{12}N_2$  \*4) 3,5-Diphenylpyrazol. Sm. 200° (*B.* 34, 3984 *C.* 1902 [1] 193).  
 \*24) Nitril d.  $\beta$ -Phenylamido- $\alpha$ -Phenylakrylsäure. Sm. 155° (*B.* 35, 2506 *C.* 1902 [2] 438).  
 27) 2-[1-Naphtyl]amidopyridin. Sm. 115° (*B.* 35, 3675 *C.* 1902 [2] 1473).  
 28) 2-[2-Naphtyl]amidopyridin. Sm. 133° (*B.* 35, 3675 *C.* 1902 [2] 1473).  
 29) 2,4-Diphenylimidazol. Sm. 193°. HCl, Ag (*B.* 34, 639).  
 30) 2-Methyl-4-[4-Pyridyl]chinolin. Sm. 101–102° (*M.* 22, 621).  
 31) Nitril d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Phenyllessigsäure. Sm. 85° (*B.* 34, 500; 35, 3333). — \*II, 941.  
 32) Nitril d.  $\alpha$ -[3-Methylphenyl]imido- $\alpha$ -Phenyllessigsäure. Sm. 43° (*B.* 35, 3332 *C.* 1902 [2] 1192).

- $C_{15}H_{12}N_2$  33) Nitril d.  $\alpha$ -[4-Methylphenyl]imido- $\alpha$ -Phenylelessigsäure. Sm. 96° (B. 34, 500; B. 35, 3332 C. 1902 [2] 1192). — \*II, 942.
- $C_{15}H_{13}N$  \*3) 1-Methyl-2-Phenylindol (D.R.P. 128660 C. 1902 [1] 610).  
 \*5) 5-Methyl-2-Phenylindol. Sm. 213° (D.R.P. 127245 C. 1902 [1] 154).
- $C_{15}H_{15}N_3$  13) 2-Amido-3-[4-Amidophenyl]chinolin. 2HCl + H<sub>2</sub>O (B. 34, 3108).  
 14) Nitril d.  $\alpha\beta$ -Di[3-Amidophenyl]akrylsäure. Sm. 145–146° (B. 34, 3106).  
 15) Nitril d.  $\alpha\beta$ -Di[4-Amidophenyl]akrylsäure. Sm. 188° (B. 34, 3106).  
 16) Nitril d.  $\alpha$ -[4-Amidophenyl]- $\beta$ -[3-Amidophenyl]akrylsäure. Sm. 108–110° (B. 34, 3107).  
 17) Nitril d.  $\alpha$ -[4-Methylamidophenyl]imido- $\alpha$ -Phenylelessigsäure. Sm. 126° (B. 34, 120).
- $C_{15}H_{15}N_5$  \*3) 4-Phenylazo-3-Methyl-1-Phenyl-1,2,5-Triazol. Sm. 122° (J. pr. [2] 64, 227).  
 \*4) 3-[ $\alpha$ -Phenylhydrazonäthyl]-1,2,4-Benzotriazin. Sm. 202° (J. pr. [2] 64, 233).  
 7) Diphenylformoguanamin. Sm. 206° (B. 34, 2598).  
 8) p-Benzyliden-3,5-Diimido-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 228° (G. 31 [1] 481).
- $C_{15}H_{14}O$  \*8)  $\alpha$ -Keto- $\beta$ -[4-Methylphenyl]- $\alpha$ -Phenyläthan (Phenyl-4-Methylbenzoylketon). Sm. 57° (94–95°) (C. 1902 [1] 1011; C. r. 134, 1507 C. 1902 [2] 361).
- $C_{15}H_{14}O_2$  \*14) 2-Phenyl-3,4-Dihydro-1,2-Cumaran. Sm. 44–45° (B. 34, 411).  
 \*1)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[2-Oxyphenyl]propan. Sm. 91–92° (B. 34, 409).  
 40) Oxydimethyldiphenylketon. (CH<sub>3</sub>:CH<sub>3</sub>:OH = 1:2:4). Sm. 110–111° (G. 32 [1] 498 C. 1902 [2] 581).  
 41) Oxydimethyldiphenylketon. (CH<sub>3</sub>:CH<sub>3</sub>:OH = 1:4:2). Sm. 166–167° (G. 32 [1] 495 C. 1902 [2] 581).  
 42) Phenyläther d. Oxymethyl-4-Methylphenylketon. Sm. 73°; Sd. 210 bis 215°<sub>10</sub> (B. 35, 3564 C. 1902 [2] 1313).
- $C_{15}H_{14}O_3$  41) 4-Methyläther- $\alpha$ -Phenyläther d. Oxymethyl-4-Oxyphenylketon. Sm. 67°; Sd. 230–233°<sub>10</sub> (B. 35, 3565 C. 1902 [2] 1313).  
 42) 4-Benzoat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 75° (D.R.P. 57941). — \*II, 720.  
 43) Phenylester d. 4-Oxybenzoläthyläther-1-Carbonsäure. Sm. 110° (D.R.P. 46756). — \*II, 906.  
 44) 2,4-Dimethylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 41° (D.R.P. 70487). — \*II, 888.  
 45) 2,5-Dimethylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 37° (D.R.P. 70487). — \*II, 888.  
 46) 3,4-Dimethylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 36° (D.R.P. 70487). — \*II, 888.  
 47) Di[3-Methylphenylester] d. Kohlensäure. Sm. 111° (D.R.P. 81375). \*II, 429.  
 48) Dibenzylester d. Kohlensäure. Sd. 203,5°<sub>14</sub> (B. 35, 3434 C. 1902 [2] 1303).
- $C_{15}H_{14}O_4$  \*15) Äthylester d. 6-Methyl-4-Phenyl-1,2-Pyron-5-Carbonsäure. Sm. 104° (B. 35, 786 C. 1902 [1] 761).  
 21) p-Acetyl-4-Keto-2-Methyl-2,3-Dihydro-5-Naphtofuran. Sm. 133 bis 134° (A. 317, 90).  
 22) 2-Methoxyphenylester d. Oxyessigphenyläthersäure. Sm. 56–57° (D.R.P. 85490). — \*II, 551.  
 23) 2-Methoxyphenylester d. 4-Oxybenzalmethyläther-1-Carbonsäure. Sm. 85–86° (D.R.P. 57941). — \*II, 906.  
 24) 4-Oxybenzoat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 170° (D.R.P. 57941). — \*II, 906.
- $C_{15}H_{14}O_5$  9) Diacetat d. 5,7-Dioxy-4-Methylen-2-Methyl-1,4-Benzpyran. Sm. 145–155° (B. 34, 1206).  
 10) Diacetat d. 7,8-Dioxy-4-Methylen-2-Methyl-1,4-Benzpyran (B. 34, 1209).
- $C_{15}H_{14}O_6$  7) Katechin + 4H<sub>2</sub>O (B. 35, 1867 C. 1902 [2] 51).  
 8) Katechin a + 3H<sub>2</sub>O. Sm. 204–205° u. Zers. (Soc. 81, 1169 C. 1902 [2] 199, 702).  
 9) Katechin b + 4H<sub>2</sub>O. Sm. 175–177° (Soc. 81, 1163 C. 1902 [2] 189, 702).



- $C_{15}H_{14}O_6$  10) Katechin c. Sm. 235—237° (*Soc.* 81, 1168 *C.* 1902 [2] 199).  
 $C_{15}H_{14}O_7$  \*3) Dimethylester d. 6-Methoxyl-1,3-Diketo-4-Methyl-2,3-Dihydroinden-2,7-Dicarbonsäure (*B.* 34, 2157).  
 $C_{15}H_{14}N_2$  \*24) Nitril d.  $\alpha$ -[4-Methylphenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 110° (*B.* 35, 3332 *C.* 1902 [2] 1192).  
 \*25) Nitril d. Dibenzylamidoameisensäure. Sm. 53—54°; Sd. 220—230° (*A.* 314, 364; *B.* 35, 1285 *C.* 1902 [1] 1094).  
 26)  $\alpha$ -Benzyliden- $\beta$ -[4-Methylbenzyliden]hydrazin (*B.* 35, 3238 *C.* 1902 [2] 1045).  
 27) Nitril d.  $\alpha$ -Methylphenylamido- $\alpha$ -Phenylelessigsäure. Sm. 67° (*B.* 35, 3352 *C.* 1902 [2] 1195).  
 28) Nitril d.  $\alpha$ -[2-Methylphenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 71° (*B.* 34, 502). — \*II, 820.  
 29) Nitril d.  $\alpha$ -[3-Methylphenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 97° (*B.* 35, 3332 *C.* 1902 [2] 1192).  
 $C_{15}H_{14}N_4$  7) 7-Benzylidenamido-1,5-Dimethyl-1,2,3-Benztriazol. Sm. 151,5 bis 152,5° (*J. pr.* [2] 63, 361).  
 $C_{15}H_{14}S_2$  2) Benzylidenäther d. 1,3-Di[Merkaptomethyl]benzol. Sm. 170° (*B.* 34, 1776).  
 $C_{15}H_{15}N$  \*4) 2,5-Dimethylbenzylidenamidobenzol. Sm. 51° (*C.* 1901 [2] 772).  
 $C_{15}H_{15}N_3$  15) 2,8-Diamido-3,7-Dimethylakridin. HCl, (2HCl, PtCl<sub>4</sub>) (*B.* 34, 4308 *C.* 1902 [1] 322).  
 $C_{15}H_{16}O$  \*8)  $\alpha$ -Oxy-2,4-Dimethyldiphenylmethan (*C.* 1902 [2] 1199).  
 23)  $\alpha$ -Oxy- $\alpha$ -Diphenylpropan. Sm. 91—92° (*C. r.* 135, 533 *C.* 1902 [2] 1209).  
 $C_{15}H_{16}O_2$  \*2)  $\alpha$ -Oxy- $\gamma$ -[2-Oxyphenyl]- $\alpha$ -Phenylpropan. Sm. 96—98° (*B.* 34, 411).  
 20) Dimethyläther d. 2,4'-Dioxydiphenylmethan. Sm. 26° (*J. pr.* [2] 65, 314 *C.* 1902 [1] 1351).  
 $C_{15}H_{16}O_3$  11) Isobutyl-1,8-Dioxy-2-Naphtylketon. Sm. 71—72° (*C.* 1901 [2] 1287).  
 $C_{15}H_{16}O_4$  \*8) Äthylester d.  $\gamma$ -Diketo- $\alpha$ -Phenyl- $\alpha$ -Hexen- $\delta$ -Carbonsäure. Sm. 44° (*B.* 35, 933 *C.* 1902 [1] 808).  
 12) 4,4'-Dimethyläther d. Di[3,4-Dioxyphenyl]methan? (Methylendiguajakol; Pulmoform) (*C.* 1901 [1] 642).  
 $C_{15}H_{16}O_6$  7) Dimethyläther d. Excoecarin. Sm. 117—119° (*Soc.* 81, 216 *C.* 1902 [1] 532, 822).  
 8) Dimethylester d. 4-Keto-1-Phenyl-R-Pentamethylen-2,3- oder 2,5-Dicarbonsäure. Sm. 94°. Na, Cu + C<sub>2</sub>H<sub>5</sub>O (*A.* 315, 239).  
 $C_{15}H_{16}O_8$  6) Methylester d. 2,4,6-Triacetoxy-1-Methylbenzol-3-Carbonsäure. Sm. 103—104° (*M.* 23, 100 *C.* 1902 [1] 1099).  
 7) Trimethylester d. 5-Acetoxy-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 106—108° (*B.* 35, 2913 *C.* 1902 [2] 1042).  
 $C_{15}H_{16}N_2$  \*9) 4-Dimethylamido-1-Phenylimidomethylbenzol. Sm. 100° (*B.* 35, 3573 *C.* 1902 [2] 1384).  
 \*10) 4-Benzylidenamido-1-Dimethylamidobenzol. Sm. 101° (*B.* 35, 3346 *C.* 1902 [2] 1194).  
 \*20) 2-Phenylhydrazonmethyl-1,4-Dimethylbenzol. Sm. 84—84,5° (*C.* 1901 [2] 772).  
 31) 2-Benzylidenamido-1-Dimethylamidobenzol. Sm. 102—103° (*B.* 34, 4203 *C.* 1902 [1] 262).  
 $C_{15}H_{16}N_4$  \*7) 3-Amido-7-Dimethylamido-2-Methyl-5,10-Naphtdiazin (Toluylenroth) (*C.* 1901 [2] 1108).  
 11)  $\alpha$ -[ $\alpha$ -Phenyläthyliden]amido- $\alpha$ -Phenylguanidin. HNO<sub>3</sub>, Pikrat (*G.* 31 [1] 535).  
 $C_{15}H_{16}S$  5) Benzyläther d. 3-Merkaptomethyl-1-Methylbenzol. Sd. 193—196°<sub>15</sub> (*Am.* 26, 205).  
 $C_{15}H_{17}N$  \*6) Äthylphenylbenzylamin. Sd. 185,5—186,5°<sub>22</sub>. Pikrat (*B.* 35, 1292 *C.* 1902 [1] 1094).  
 $C_{15}H_{17}N_3$  \*4) 4,4'-Dimethyldiphenylguanidin. Sm. 169—170° (*J. pr.* [2] 65, 386 *C.* 1902 [1] 1330).  
 15) 4-Amido-1-[4-Dimethylamidobenzyliden]amidobenzol (*C. r.* 134, 551 *C.* 1902 [1] 874).  
 16) 2,4'-Dimethyldiphenylguanidin. Sm. 120—121° (*J. pr.* [2] 65, 385 *C.* 1902 [1] 1330).  
 17) 2,8-Diamido-3,7-Dimethyl-5,10-Dihydroakridin (*C.* 1901 [2] 78).

- $C_{15}H_{17}N_3$  \*1)  $\alpha$ -Di[Phenylhydrazon]- $\alpha$ -Amidopropan. Sm. 224°.  $H_2SO_4$  (*J. pr.* [2] 64, 239).
- $C_{15}H_{17}P$  1) Aethylphenyl-4-Methylphenylphosphin. Sd. 340° (2HCl,  $PtCl_4$ ) (*A.* 315, 60).
- 2) Dimethyl-4-Benzylphenylphosphin. Sd. 197°<sub>30</sub> (*A.* 315, 46).
- 3) Methyl-di[4-Methylphenyl]phosphin. Sd. 345° (*A.* 315, 69).
- $C_{15}H_{17}As$  1) Aethylphenyl-4-Methylphenylarsin. Sd. 210—225°<sub>50</sub> (*A.* 321, 158 *C.* 1902 [2] 43).
- $C_{15}H_{18}O$  5) 5-Keto-3- oder 4-Benzyliden-1,1,2-Trimethyl-R-Pentamethylen. Sm. 34° (*Bl.* [3] 27, 76 *C.* 1902 [1] 586).
- $C_{15}H_{18}O_2$  7) Benzylester d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sd. 184—190°<sub>10—18</sub> (*D.R.P.* 133631 *C.* 1902 [2] 553).
- $C_{15}H_{18}O_3$  \*5) Desmotroposantonin. Sm. 259° (*G.* 32 [1] 341 *C.* 1902 [1] 1406; *C. r.* 135, 43 *C.* 1902 [2] 446).
- 15) Chromosantonin (*G.* 32 [1] 325 *C.* 1902 [1] 1406).
- 16) Lakton d. Säure  $C_{15}H_{20}O_4$  (aus Artemisin). Sm. 269—270° (*C.* 1902 [2] 369).
- $C_{15}H_{18}O_4$  \*1) Artemisin. Sm. 200°. +  $CHCl_3$  (*C.* 1901 [2] 937).
- $C_{15}H_{18}O_5$  10) Coriamyrtin (*Soc.* 79, 125).
- $C_{15}H_{18}O_6$  11) Diäthylester d. 2-Methoxyphenoxylfumsäure. Sd. 212—213°<sub>15</sub> (*Soc.* 81, 421 *C.* 1902 [1] 757; *Soc.* 81, 421 *C.* 1902 [1] 757).
- $C_{15}H_{18}O_7$  8) Aethylester d. 2,4,6-Trimethoxybenzoylbrenztraubensäure. Sm. 80° (*B.* 34, 2477).
- $C_{15}H_{18}O_8$  \*2) Triäthylester d. 2,4-Trioxybenzol-1,3,5-Tricarbonsäure. Sm. 104 bis 105° (*G.* 31 [1] 162).
- $C_{15}H_{18}O_9$  \*1) Triäthylester d. 2,4,6-Triketohexahydrobenzol-1,3,5-Tricarbonsäure (*B.* 35, 245).
- $C_{15}H_{18}N_2$  \*9) isom. Di[2-Methylphenylamido]methan. Sm. 156—157° (*Soc.* 81, 283 *C.* 1902 [1] 527).
- \*12) isom. Di[4-Methylphenylamido]methan. Sm. 149—150° (*Soc.* 81, 284 *C.* 1902 [1] 527).
- 19)  $\alpha$ -Di[Phenylamido]propan.  $H_2SO_3$  (*A.* 316, 128).
- 20) Di[3-Methylphenylamido]methan.  $\alpha$ -Form, Sm. 78°;  $\beta$ -Form, Sm. 160° (*Soc.* 81, 284 *C.* 1902 [1] 527).
- 21) Aethylphenyl-3-Amidobenzylamin. Sd. 261—262°<sub>57—58</sub>. 2HCl (*B.* 35, 1294 *C.* 1902 [1] 1094).
- 22) Aethylphenyl-4-Amidobenzylamin. Sd. 225°<sub>31</sub>. HCl, Oxalat (*B.* 35, 1295 *C.* 1902 [1] 1094).
- $C_{15}H_{18}N_4$  6) 2,6-Diamido-3,5,4'-Trimethylazobenzol. Sm. 165—166° (*Soc.* 81, 95 *C.* 1902 [1] 186, 416).
- $C_{15}H_{20}O_2$  8) Lakton d. Isoalantolsäure. Sm. 115° (109—110°) (*B.* 6, 1507; 34, 777; *A.* 285, 357 Ann.). — \*II, 939.
- $C_{15}H_{20}O_3$  \*10) Desmotroposantonige Säure (*C. r.* 135, 43 *C.* 1902 [2] 446).
- $C_{15}H_{20}O_4$  \*1) Di[2,6-Diketo-4-Methylhexahydrophenyl]methan (Methylenbis-methyldihydroresorcin). Sm. 152—153° (*B.* 35, 2183 *C.* 1902 [2] 374).
- \*8) i-Dehydrophotosantonsäure. Sm. 134,5—135,5°. Ba (*G.* 32, [1] 305 *C.* 1902 [1] 1404).
- \*9) Aktive Dehydrophotosantonsäure. Sm. 138,5—139°. Ba (*G.* 32 [1] 305 *C.* 1902 [1] 1404).
- 24) Diäthyläther d.  $\alpha$ -Diketo- $\alpha$ -[2,4-Dioxyphenyl]pentan. Sm. 74—75° (*B.* 34, 1696).
- 25) Diäthyläther d.  $\alpha$ -Diketo- $\alpha$ -[2,5-Dioxyphenyl]pentan. Sm. 49° (*B.* 34, 1594).
- 26) Diäthyläther d.  $\gamma$ -Keto- $\beta$ -[2,4-Dioxybenzoyl]butan. Sm. 72,5° (*B.* 34, 2949).
- 27) isom. i-Dehydrophotosantonsäure. Sm. 133,5—134,5° (*G.* 32 [1] 306 *C.* 1902 [1] 1404).
- 28) Säure (aus Artemisin). Ba (*C.* 1902 [2] 369).
- $C_{15}H_{20}O_5$  10) Artemisinsäure.  $Ag + 2H_2O$  (*C.* 1901 [2] 938; *B.* 34, 3718 *C.* 1902 [1] 45).
- $C_{15}H_{20}O_6$  7) Oxydehydroisophotosantonsäure. Sm. 283—284°. Ba (*G.* 32 [1] 318 *C.* 1902 [1] 1405).
- $C_{15}H_{20}N_4$  \*3) Di[4,6-Diamido-3-Methylphenyl]methan (*C.* 1901 [2] 78).

- $C_{15}H_{20}N_4$  4) 4-Dimethylamido-2,2',4'-Triamidodiphenylmethan. Sm. 188—190° (D.R.P. 133709 C. 1902 [2] 615).
- $C_{15}H_{21}Br$  1) Bromcalamen. Fl. (B. 35, 3200 C. 1902 [2] 1256).
- 2) Verbindung (aus Camaleon). Fl. (B. 35, 3198 C. 1902 [2] 1256).
- $C_{15}H_{22}O_2$  9) Acetyljonon. Sd. 170—177°<sub>25</sub> (D.R.P. 126960 C. 1902 [1] 77).
- 10) Acetylpseudojonon. Fl. (D.R.P. 126960 C. 1902 [1] 77).
- 11) Lakton d. Dihydroisoalantolsäure. Sm. 166° (B. 34, 779). — \*II, 940.
- $C_{15}H_{22}O_3$  12) Acetat d.  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]butan. Sd. 140—141° (B. 35, 2259 C. 1902 [2] 275).
- 13) Isoalantolsäure. Ca, Ba + 5 H<sub>2</sub>O, Ag (B. 34, 778). — \*II, 939.
- 14) Methylester d. Allylcamphocarbonsäure. Sm. 75,5—76° (B. 35, 3628 C. 1902 [2] 1467).
- $C_{15}H_{22}O_4$  4) d-Monoborneolester d. Citrakonsäure. Sm. 150,5° (B. 35, 3400 C. 1902 [2] 1358).
- 5) isom. d-Monoborneolester d. Citrakonsäure. Sm. 82,5° (B. 35, 3400 C. 1902 [2] 1358).
- 6) l-Monoborneolester d. Citrakonsäure. Sm. 150,5° (B. 35, 3399 C. 1902 [2] 1358).
- 7) isom. l-Monoborneolester d. Citrakonsäure. Sm. 82,5° (B. 35, 3399 C. 1902 [2] 1358).
- 8) l-Monoborneolester d. Mesakonsäure. Sm. 116,5° (B. 35, 3400 C. 1902 [2] 1358).
- $C_{15}H_{22}O_5$  \*1) Photosantonsäure. Sm. 154—155°. Ba, Ag<sub>2</sub> (G. 32 [1] 301 C. 1902 [1] 1404).
- \*2) Isophotosantonsäure. Ba + H<sub>2</sub>O (G. 32 [1] 311 C. 1902 [1] 1404).
- $C_{15}H_{22}O_7$  3) Glyko-o-Oxyphenyläthylcarbinol. Sm. 145—150° u. Zers. (C. 1902 [2] 215).
- 4) Triäthylester einer Säure C<sub>9</sub>H<sub>10</sub>O<sub>7</sub>. Sd. 198—200°<sub>15</sub> (M. 23, 851 C. 1902 [2] 1409).
- $C_{15}H_{22}O_8$  \*1) Tetraäthylester d. Dicarboxyglutakonsäure. Na (B. 34, 675; B. 35, 2883 C. 1902 [2] 1035).
- 8) Tetraäthylester d. isom. R-Trimethylen-1,1,2,2-Tetracarbonsäure? Sd. 155—160°<sub>12</sub> (J. pr. [2] 64, 399).
- $C_{15}H_{22}O_{10}$  \*2) Tetraacetat d.  $\beta$ -Methyl-d-Glykosid. Sm. 104—105° (B. 34, 966; R. 21, 43 C. 1902 [1] 988).
- 3) Tetraacetat d.  $\alpha$ -Methyl-d-Glykosid. Sm. 101°. + C<sub>6</sub>H<sub>6</sub> (B. 34, 970, 2893; R. 21, 43 C. 1902 [1] 988).
- 4) Tetraacetat d.  $\beta$ -Methylgalaktosid. Sm. 93—94° (B. 34, 979).
- $C_{15}H_{23}Cl$  1) Hydrochlorid d. Kohlenwasserstoff C<sub>15</sub>H<sub>22</sub> (aus Calmusöl). Fl. (B. 35, 3194 C. 1902 [2] 1255).
- $C_{15}H_{24}O$  19) act. Amyläther d. 2-Oxy-4-Isopropyl-1-Methylbenzol. Sd. 250 bis 270° (A. ch. [7] 6, 141). — \*II, 459.
- 20)  $\alpha$ -Dimethyljonon. Sd. 150—155°<sub>20</sub> (D.R.P. 127424 C. 1902 [1] 235; D.R.P. 133758 C. 1902 [2] 613).
- 21)  $\beta$ -Dimethyljonon. Sd. 155—160°<sub>20</sub> (D.R.P. 127424 C. 1902 [1] 235; D.R.P. 133758 C. 1902 [2] 613).
- 22) Pseudodimethyljonon (D.R.P. 127424 C. 1902 [1] 235).
- $C_{15}H_{24}O_3$  \*1) Digitogenin (B. 34, 3562).
- \*5) Aethylester d. Aethylcamphocarbonsäure. Sd. 164—165°<sub>15</sub> (B. 35, 3619 C. 1902 [2] 1467).
- 9) Dihydroisoalantolsäure. Sm. 122—123° (B. 34, 779). — \*II, 940.
- $C_{15}H_{24}O_4$  4) Calameonsäure + H<sub>2</sub>O. Sm. 153° (138° wasserfrei). NH<sub>4</sub> + 1½ H<sub>2</sub>O, Ca + 6 H<sub>2</sub>O (B. 35, 3197 C. 1902 [2] 1256).
- $C_{15}H_{24}O_6$  8) Diäthylester d.  $\beta$ -Diketo- $\delta$ -Aethylidenheptan- $\alpha$ - $\eta$ -Dicarbonsäure (D. d. Propylindisacetessigsäure). Sm. 76—78° (A. 323, 145 C. 1902 [2] 842).
- $C_{15}H_{24}O_5$  \*3) Tetraäthylester d. Propan- $\alpha\beta\beta\gamma$ -Tetracarbonsäure. Sd. 195—200°<sub>12</sub> (J. pr. [2] 66, 118 C. 1902 [2] 733).
- $C_{15}H_{26}O$  19) Verbindung (aus Copaivasäure). Sm. 132° (C. 1901 [2] 1227).
- $C_{15}H_{26}O_2$  7) Calameon. Sm. 168° (165—166°). Na (C. 1901 [1] 893; B. 34, 1022; B. 35, 3190 C. 1902 [2] 1254; B. 35, 3195 C. 1902 [2] 1255).
- 8)  $\alpha$ -Silvinolsäure. Sm. 85—90° (C. 1901 [1] 1228).
- 9) Valerianat d. l-Borneol (C. r. 134, 609 C. 1092 [1] 872).

- $C_{15}H_{26}O_2$  10) Isovalerianat d. Isoborneol. *Sd.* 132—133°<sub>13</sub> (*J. pr.* [2] 65, 226 *C.* 1902 [1] 1220).  
 11) Isovalerianat d. Isofenchylalkohol. *Sd.* 142—145°<sub>19</sub> (*J. pr.* [2] 65, 229 *C.* 1902 [1] 1220).  
 $C_{15}H_{26}O_6$  \*4) Triäthylester d. Hexan- $\alpha\delta\delta$ -Tricarbonsäure. *Sd.* 180—183°<sub>28</sub> (*Soc.* 79, 131).  
 19) Diäthylester d. l-Oenanthyläpfelsäure. *Sd.* 191,6—192,2°<sub>15-16</sub> (*Ph. Ch.* 36, 142).  
 20) Triäthylester d. Hexan- $\alpha\gamma\gamma$ -Tricarbonsäure. *Sd.* 180—185°<sub>32</sub> (*Soc.* 79, 129).  
 21) Triäthylester d.  $\beta\beta$ -Dimethylbutan- $\alpha\alpha\delta$ -Tricarbonsäure. *Sd.* 150 bis 172°<sub>15</sub> (*C.* 1901 [2] 535).  
 $C_{15}H_{26}Cl_2$  22) Triacetat d.  $\delta\zeta\eta$ -Trioxy- $\gamma\delta$ -Dimethylheptan. *Fl.* (*J. pr.* [2] 64, 562).  
 \*1) Cadinendihydrochlorid (*Bl.* [3] 25, 931).  
 4) Caryophyllendihydrochlorid (*C.* 1902 [1] 41).  
 5) Zingiberendihydrochlorid. *Sm.* 168° (*C.* 1901 [2] 1007; 1902 [1] 41).  
 $C_{15}H_{28}O_4$  \*2) Dimethylester d. Brassylsäure (*B.* 34, 900 *Anm.*).  
 \*8) Dimethylester d. Undekan- $\beta$ -Dicarbonsäure. *Sd.* 319—321° (*B.* 34, 900).  
 12) Diäthylester d.  $\beta\zeta$ -Dimethylheptan- $\gamma\gamma$ -Dicarbonsäure. *Sd.* 138 bis 145°<sub>14</sub> (*A.* 318, 159).  
 $C_{15}H_{29}Cl$  1) Chlorpentadekanaphten. *Sd.* 170—175°<sub>14</sub> (*Am.* 25, 296).  
 $C_{15}H_{30}O$  5) Maneleresen. *Sm.* 63—65° (*Ar.* 240, 311 *C.* 1902 [2] 135).  
 $C_{15}H_{30}O_3$  5) Aethylisobutylcarbinolester d. Kohlensäure (Carbonat d.  $\delta$ -Oxy- $\beta$ -Methylhexan). *Sd.* 250—255° (*C.* 1901 [1] 1303).  
 6)  $\gamma$ -Isovalerat d.  $\delta$ -Oxy- $\gamma$ -Oxymethyl- $\beta\zeta$ -Dimethylheptan. *Sd.* 140 bis 146°<sub>16</sub> (258°) (*M.* 17, 146; 18, 197; 22, 546; *A.* 318, 165; *Bl.* [3] 15, 971; *A.* 322, 131 *C.* 1902 [2] 104).  
 7) Di[Dipropylcarbinolester] d. Kohlensäure. *Sd.* 260—265° (*C.* 1901 [1] 1302).  
 8) Methyl- $\alpha$ -Aethylpropylcarbinolester d. Kohlensäure (Carbonat d.  $\beta$ -Oxy- $\gamma$ -Aethylpentan). *Sd.* 249—250° (*C.* 1901 [1] 1303).  
 $C_{15}H_{30}Cl_2$  1) Dichlorpentadekan. *Sd.* 175—180°<sub>13</sub> (*Am.* 28, 174 *C.* 1902 [2] 1081).  
 $C_{15}H_{33}N$  \*1)  $\alpha$ -Amidopentadekan. *Sm.* 34°; *Sd.* 299—301°. *HCl*, (2*HCl*, *PtCl*), (*J. pr.* [2] 64, 435 *C.* 1902 [1] 25).

— 15 III —

- $C_{15}H_4O_3Hg_6$  1) Verbindung + 16  $H_2O$  (aus Malonsäure) (*B.* 35, 2583 *C.* 1902 [2] 571).  
 $C_{15}H_6O_8Cl_4$  1) 3,5,6,8-Tetrachlor-1,4,7-Trioxo-2-Methyl-9,10-Anthrachinon? *Sm.* 229—231° (*C. r.* 134, 1112 *C.* 1902 [2] 62).  
 $C_{15}H_6O_8Br_4$  1) 3,5,6,8-Tetrabrom-1,4,7-Trioxo-2-Methyl-9,10-Anthrachinon? *Sm.* 264—266° (*C. r.* 134, 1112 *C.* 1902 [2] 62).  
 $C_{15}H_6O_8Br_4$  \*2) Tetrabrommyricetin. *Sm.* 211—212° (*Soc.* 81, 205 *C.* 1902 [1] 528).  
 $C_{15}H_7O_8N$  C 77,3 — H 3,0 — O 13,7 — N 6,0 — *M. G.* 233.  
 1) Nitril d. 9,10-Phenanthrenchinon-2-Carbonsäure. *Sm.* 290° (*A.* 321, 356 *C.* 1902 [2] 62).  
 2) Nitril d. 9,10-Phenanthrenchinon-3-Carbonsäure. *Sm.* 282—283° (*A.* 321, 353 *C.* 1902 [2] 61).  
 $C_{15}H_7O_8Br_3$  1) Tribromkämpferol. *Sm.* 275—277° (*Soc.* 81, 587 *C.* 1902 [1] 1356).  
 $C_{15}H_6O_8N_2$  C 50,0 — H 2,2 — O 40,0 — N 7,8 — *M. G.* 360.  
 1) 2,7-Dinitroxanthen-4,5-Dicarbonsäure. *Sm.* 110° (*C.* 1902 [2] 285).  
 $C_{15}H_3N_3Br_4$  1) 4,5,6,7-Tetrabrom-2-[ $\beta$ -Phenyläthenyl]benzimidazol +  $H_2O$ . *Sm.* 240—246° (wasserfrei) (*C.* 1902 [2] 942).  
 $C_{15}H_9ON$  2) 9,10-Phenanthrenoxazol. *Sm.* 145—146° (*B.* 35, 2744 *C.* 1902 [2] 646).  
 $C_{15}H_9ON_3$  C 72,9 — H 3,6 — O 6,5 — N 17,0 — *M. G.* 247.  
 1) Azid d. Phenanthren-9-Carbonsäure. *Zers.* bei 94° (*B.* 35, 2727 *C.* 1902 [2] 643).  
 $C_{15}H_9O_2N_3$  3) Indophenazincarbonsäure. *Sm.* oberh. 300° (*B.* 34, 4013 *C.* 1902 [1] 205).  
 $C_{15}H_9O_3N$  \*7) 6-Nitro-1-Keto-2-Phenylinden. *Sm.* 218° (*G.* 31 [2] 83).  
 9) Amid d. 9,10-Phenanthrenchinon-3-Carbonsäure. *Sm.* 289—290° (*A.* 321, 354 *C.* 1902 [2] 61).

- $C_{15}H_9O_3Br$  3)  $\beta$ -Brom- $\beta$ -Oxy-2-Methyl-9,10-Anthrachinon (D.R.P. 131405 C. 1902 [1] 1288).
- $C_{15}H_9O_4N$  \*6)  $\beta$ -Naphtochinolin-1,3-Dicarbonsäure. Sm. 288° (A. 317, 153).  
 \*7) Lakton d.  $\beta$ -Nitro- $\alpha$ -Oxy- $\beta$ -Diphenyläthen- $\alpha^2$ -Carbonsäure. Sm. 191—193° (B. 34, 2830).  
 11) 2-Keto-1-[2-Nitrobenzyliden]1,2-Dihydrobenzofuran. Sm. 195—196° (B. 35, 3563 C. 1902 [2] 1312).  
 12) 2,4-Diketo-3-Benzoyl-3,4-Dihydro-1,3-Benzoxazin. Sm. 172° (B. 35, 3651 C. 1902 [2] 1457).  
 13) Lakton d.  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]äthen- $\alpha^2$ -Carbonsäure. Sm. 222° (B. 34, 2837).  
 14) Lakton d.  $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]- $\beta$ -Phenyläthen- $\alpha^2$ -Carbonsäure? Sm. 232—233° (B. 34, 2836).  
 15) Lakton d.  $\alpha$ -Oxy- $\alpha$ -[5-Nitrophenyl]- $\beta$ -Phenyläthen- $\alpha^2$ -Carbonsäure? Sm. 277° (B. 34, 2836).
- $C_{15}H_9O_4N_3$  \*2) Nitril d.  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2-Nitrophenyl]akrylsäure. Sm. 184° (B. 34, 3107).  
 4) Nitril d.  $\alpha$ -Benzoximido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 154° (J. pr. [2] 66, 372 C. 1902 [2] 1502).  
 5) Nitril d.  $\alpha$ - $\beta$ -Di[2-Nitrophenyl]akrylsäure. Sm. 169—171° (B. 34, 3107).  
 6) Nitril d.  $\alpha$ - $\beta$ -Di[3-Nitrophenyl]akrylsäure. Sm. 204° (B. 34, 3106).  
 7) Nitril d.  $\alpha$ - $\beta$ -Di[4-Nitrophenyl]akrylsäure. Sm. 215° (B. 34, 3105).  
 2) 6-Oxy-2,4-Di[4-Nitrophenyl]1,3,5-Triazin. Sm. noch nicht bei 305° (B. 34, 1991).
- $C_{15}H_9O_5N_5$  1) Triisopropylmucylphosphat. Sm. 138° (C. r. 134, 1440 C. 1902 [2] 263).  
 $C_{15}H_{10}ON_2$  3) Methyleumarophenazin. Sm. 133—134° (B. 34, 1111).  
 $C_{15}H_{10}OBr_2$  2) Methyläther d.  $\beta$ -Dibrom-3-Oxyphenanthren. Sm. 150° (B. 34, 4007 C. 1902 [1] 203).
- $C_{15}H_{10}O_2N_2$  19) Nitril d.  $\alpha$ -Benzoximido- $\alpha$ -Phenyllessigsäure. Sm. 138° (J. pr. [2] 66, 363 C. 1902 [2] 1501).
- $C_{15}H_{10}O_3N_2$  17)  $\beta$ -Nitroso-3-Oxy-1-Benzoylindol. Sm. 104° (D.R.P. 131400 C. 1902 [1] 1344).  
 18) 4-Keto-3-Phenyl-3,4-Dihydro-1,3-Benzdiazin-3- $\alpha^2$ -Carbonsäure. Sm. 280—281° u. Zers. (B. 35, 3476 C. 1902 [2] 1317).
- $C_{15}H_{10}O_4N_2$  \*2) 3-Nitrobenzylimid d. Benzol-1,2-Dicarbonsäure (D.R.P. 134979 C. 1902 [2] 1084).  
 5) 2-Methylphenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 145° (C. 1901 [2] 1159).  
 6) 2-Methylphenylimid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 160° (C. 1901 [2] 1160).  
 7) 3-Methylphenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 129° (C. 1901 [2] 1159).  
 8) 3-Methylphenylimid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 197° (C. 1901 [2] 1160).  
 9) 4-Methylphenylimid d. 3-Nitrobenzol-1,2-Dicarbonsäure. Sm. 154° (C. 1901 [2] 1159).  
 10) 4-Methylphenylimid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 165° (C. 1901 [2] 1160).
- $C_{15}H_{10}O_5N_2$  2)  $\gamma$ -Keto- $\alpha$ - $\gamma$ -Di[3-Nitrophenyl]propen. Sm. 210° (B. 34, 3527).  
 3)  $p$ -Nitrooxybenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 233—234° (D.R.P. 134979 C. 1902 [2] 1084).
- $C_{15}H_{10}O_5S$  4) Methylester d. 9,10-Phenanthrenchinon-3-Sulfonsäure. Sm. 235° (A. 321, 352 C. 1902 [2] 61).
- $C_{15}H_{10}NCl$  5) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[4-Chlorphenyl]akrylsäure. Sm. 108° (J. pr. [2] 65, 281 C. 1902 [1] 1216).
- $C_{15}H_{10}N_3Br_2$  1) 4,6-Dibrom-2- $\beta$ -Phenyläthenyl]benzimidazol. Sm. 182—186° (C. 1902 [2] 942).
- $C_{15}H_{11}ON$  \*7) 3,5-Diphenylisoxazol. Sm. 140—141° (B. 34, 3985 C. 1902 [1] 193).  
 \*11) 4-Oxy-2-Phenylchinolin. Sm. 254° (C. 1901 [2] 1228).  
 35) 6- oder 7-Oxy-3-Phenylisochinolin. Sm. 196—197°. HCl, (2HCl, PtCl<sub>4</sub>), HJ, Pikrat (B. 34, 3745 C. 1902 [1] 40).  
 36) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[3-Oxyphenyl]akrylsäure. Sm. 106—107° (B. 34, 3085).



- $C_{15}H_{11}ON$  37) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[4-Oxyphenyl]akrylsäure. Sm. 192° (B. 34, 3084).  
 38) Nitril d. isom.  $\alpha$ -Phenyl- $\beta$ -[4-Oxyphenyl]akrylsäure. Sm. 190—191° (B. 34, 3085).  
 39) Amid d. Phenanthren-3-Carbonsäure. Sm. 227—228° (A. 321, 324 C. 1902 [2] 60).  
 40) Amid d. Phenanthren-9-Carbonsäure. Sm. 226° (A. 321, 328 C. 1902 [2] 60).
- $C_{15}H_{11}ON_3$  \*3) 3-Oxy-5,6-Diphenyl-1,2,4-Triazin. Sm. 221° (224—225°) (B. 34, 3979 C. 1902 [1] 192; B. 35, 346 C. 1902 [1] 584).  
 9) 6-Oxy-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 268° (2 HCl, PtCl<sub>4</sub>) (B. 34, 4245 C. 1902 [1] 209).
- $C_{15}H_{11}OCl$  1)  $\beta$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[4-Chlorphenyl]propen (4-Chlorbenzylidenacetophenon). Sm. 103—104° (J. pr. [2] 65, 280 C. 1902 [1] 1215).
- $C_{15}H_{11}OBr$  2) Methyläther d.  $\beta$ -Brom-2-Oxyphenanthren. Sm. 176° (B. 34, 4006 C. 1902 [1] 202).
- $C_{15}H_{11}O_2N$  \*21) Benzylimid d. Benzol-1,2-Dicarbonsäure (D.R.P. 134979 C. 1902 [2] 1084).  
 27) 3-Oxy-1-Benzoylindol. Sm. 123° (D.R.P. 131400 C. 1902 [1] 1344).  
 28) isom. 3-Oxy-1-Benzoylindol? Sm. 101° (D.R.P. 131400 C. 1902 [1] 1344).  
 29) Phenylamid d. Benzfuran-1-Carbonsäure. Sm. 159° (B. 34, 773). — \*II, 980.  
 30) 2-Methylphenylisoimid d. Benzol-1,2-Dicarbonsäure. Sm. 201° (Am. 26, 458).
- $C_{15}H_{11}O_2N_3$  16) Phenylamidoformiat d.  $\alpha$ -Oximido- $\alpha$ -Phenyllessigsäurenitril. Sm. 134° (J. pr. [2] 66, 368 C. 1902 [2] 1501).  
 17) Nitril d.  $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 121—122° (B. 34, 501).  
 18) Nitril d.  $\alpha$ -[4-Methylphenyl]imido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 121—122° (B. 34, 501).  
 19) Verbindung (aus  $\alpha$ -Oximido- $\alpha$ -Phenyllessigsäurenitril). Sm. 90° (J. pr. [2] 66, 366 C. 1902 [2] 1501).
- $C_{15}H_{11}O_2N_5$  \*1) 4-Phenylazo-1-Phenyl-1,2,5-Triazol-3-Carbonsäure. Sm. 195—196° (Ag (J. pr. [2] 64, 211)).
- $C_{15}H_{11}O_2Br$  7) Lakton d.  $\alpha$ -Brom- $\beta$ -Oxy- $\alpha$ - $\beta$ -Diphenyläthan- $\alpha^2$ -Carbonsäure. Sm. 137° (B. 34, 2831).
- $C_{15}H_{11}O_3N$  12) Methyläther d.  $\beta$ -Nitro-2-Oxyphenanthren. Sm. 190—191° (A. 321, 307 C. 1902 [2] 59).  
 13) Methyläther d. 9- oder 10-Nitro-3-Oxyphenanthren. Sm. 136,5 bis 137° (A. 321, 285 C. 1902 [2] 58).  
 14) Methyläther d. 10-Nitro-9-Oxyanthracen. Sm. 156° (A. 323, 239 C. 1902 [2] 803).  
 15) Methyläther d. 10-Isonitro-9-Oxy-9,10-Dihydroanthracen? Sm. 125° u. Zers. (A. 323, 237 C. 1902 [2] 803).  
 16)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[2-Nitrophenyl]propen. Sm. 124° (B. 35, 1067 C. 1902 [1] 929).  
 17)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[3-Nitrophenyl]propen. Sm. 145—146° (B. 35, 1068 C. 1902 [1] 929).  
 18)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[4-Nitrophenyl]propen. Sm. 164° (B. 35, 1068 C. 1902 [1] 929).  
 19)  $\beta$ -Oxybenzylimid d. Benzol-1,2-Carbonsäure. Sm. 205° (105°?) (D.R.P. 134979 C. 1902 [2] 1084; D.R.P. 134980 C. 1902 [2] 1164).  
 20) isom.  $\beta$ -Oxybenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 150° (D.R.P. 134979 C. 1902 [2] 1084; D.R.P. 134980 C. 1902 [2] 1164).
- $C_{15}H_{11}O_3N_3$  4) 3-Oxy-6- oder 7-Methyl-2-[2-Nitrophenyl]-1,4-Bendiazin. Sm. 293 bis 294° (B. 34, 4009 C. 1902 [1] 204).
- $C_{15}H_{11}O_4N$  \*2)  $\alpha$ -Phenyl- $\beta$ -[2-Nitrophenyl]akrylsäure (G. 31 [2] 80).  
 \*4)  $\alpha$ -Phenyl- $\beta$ -[3-Nitrophenyl]akrylsäure (G. 31 [2] 82).  
 \*5) Allo- $\alpha$ -Phenyl- $\beta$ -[3-Nitrophenyl]akrylsäure. Sm. 195° (G. 31 [2] 82).  
 \*6)  $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akrylsäure (G. 31 [2] 83).  
 \*7) Allo- $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akrylsäure. Zers. bei 200° (G. 31 [2] 84).

- $C_{15}H_{11}O_4Br$  4) 9- oder 10-Methyläther d. 9-Brom-1,2,9,10-Tetraoxanthracen? (*C.* 1901 [1] 601).
- $C_{15}H_{11}O_5N$  8)  $\gamma$ -Keto- $\gamma$ -[3-Nitrophenyl]- $\alpha$ -[3,4-Dioxyphenyl]propen. Sm. 217° (*B.* 34, 3530).
- $C_{15}H_{11}O_5N_3$  3) Nitril d.  $\beta$ -Oxy- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2-Nitrophenyl]propionsäure. Sm. 135—138° (*B.* 34, 3108).
- $C_{15}H_{11}O_7N_3$  2) 3,5-Dinitro-2-Phenylacetylamidobenzol-1-Carbonsäure. Sm. 209 bis 210° (*M.* 22, 390).
- $C_{15}H_{11}O_5N_3$  2) Acetylderivat d. 4,6-Dinitro-4'-Oxydiphenylamin-2-Carbonsäure. Sm. 97—99° u. Zers. (*M.* 22, 393).
- $C_{15}H_{12}ON_2$  \*23) 4-Keto-2-Methyl-3-Phenyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 147°. HCl (*B.* 35, 3482 *C.* 1902 [2] 1318).
- 35)  $\alpha$ -Imido- $\alpha$ -Benzoylmethylenamido- $\alpha$ -Phenylmethan. Sm. 224°. HCl, (2HCl, PtCl<sub>4</sub>), H<sub>2</sub>SO<sub>4</sub>, Ag (*B.* 34, 641, 3024, 3032).
- 36) 2-[2-Methylphenyl]amido-3-Ketopseudoindol. Sm. 152—160° (*D.R.P.* 115465 *C.* 1901 [1] 71). — \*II, 943.
- 37) 2-[4-Methylphenyl]amido-3-Ketopseudoindol. Sm. 150—153° (*D.R.P.* 115465 *C.* 1901 [1] 71). — \*II, 944.
- 38) Nitril d. Benzoyl-3-Methylphenylamidoameisensäure. Sm. 69° (*J. pr.* [2] 65, 377 *C.* 1902 [1] 1329).
- 39) Nitril d. Benzoyl-4-Methylphenylamidoameisensäure. Sm. 126° (*J. pr.* [2] 65, 373 *C.* 1902 [1] 1329).
- 40) Hydrazid d. Phenanthren-9-Carbonsäure. Sm. 228° (*B.* 35, 2727 *C.* 1902 [2] 643).
- $C_{15}H_{12}OBr_2$  \*1)  $\beta$ -Dibrom- $\alpha$ -Keto- $\alpha$ - $\gamma$ -Diphenylpropan ( $\alpha$ -Benzylidenacetophenondibromid). Sm. 156—157° (*C.* 1902 [1] 37).
- 5)  $\beta$ -Benzylidenacetophenondibromid. Sm. 108—109° (*C.* 1902 [1] 37).
- $C_{15}H_{12}O_2N_2$  35) 3-Oxy-6-Methyl-2-[2-Oxyphenyl]-2,3-Dihydro-1,4-Benzdiazin. Sm. 261° (*B.* 34, 1112).
- 36) 2-[ $\alpha$ -Cyanbenzyl]amidobenzol-1-Carbonsäure. Sm. 166° u. Zers. (171°) (*J. pr.* [2] 65, 276 *C.* 1902 [1] 1215; *B.* 35, 3336 *C.* 1902 [2] 1193).
- 37) Laktone d.  $\alpha$ -Oxy- $\alpha$ -[3-Amido-4-Methylphenyl]imido- $\alpha$ -Phenylmethan-2-Carbonsäure. Sm. 192° (*B.* 10, 1161; *D.R.P.* 126964 *C.* 1902 [1] 152). — IV, 606.
- $C_{15}H_{12}O_2N_4$  5) Nitril d.  $\alpha$ -[4-Methylamidophenyl]imido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 188° (*B.* 34, 120).
- $C_{15}H_{12}O_4Br_2$  3)  $\alpha$ - $\beta$ -Dibrom- $\alpha$ - $\beta$ -Diphenyläthan-2-Carbonsäure. Sm. 180° u. Zers. (*B.* 34, 2831).
- $C_{15}H_{12}O_5S_7$  1) Methylenester d. Benzolthiolcarbonsäure. Sm. 120° (*C.* 1902 [1] 1401).
- $C_{15}H_{13}O_5N_2$  13) 1-Benzoylhydrazonmethylbenzol-2-Carbonsäure. Sm. 189° u. Zers. (*B.* 34, 1017).
- $C_{15}H_{12}O_5N_4$  \*1) Formazylglyoxalsäure. Sm. 166°. Cu, Ag (*J. pr.* [2] 64, 204).
- \*2) Isoformazylglyoxalsäure. Sm. 158° (163°). Ag (*J. pr.* [2] 64, 208).
- $C_{15}H_{12}O_3Cl_2$  2) Methylester d.  $\alpha$ -Oxy- $\alpha$ -Di[4-Chlorphenyl]essigsäure. Sm. 60° (*R.* 21, 23 *C.* 1902 [1] 1013).
- 3) Di[ $\alpha$ -Chlorbenzylester] d. Kohlensäure. Sm. 105° (*C.* 1901 [1] 69).
- $C_{15}H_{13}O_3S$  2) Methylester d. Phenanthren-2-Sulfonsäure. Sm. 96—98° (*A.* 321, 274 *C.* 1902 [2] 57).
- 3) Methylester d. Phenanthren-3-Sulfonsäure. Sm. 119—120° (*A.* 321, 269 *C.* 1902 [2] 57).
- $C_{15}H_{12}O_4N_2$  9) Phenylimidophenylamidomethan-3,3'-Dicarbonsäure. Sm. 250° (*C.* 1902 [2] 954).
- 10) Phenylimidophenylamidomethan-4,4'-Dicarbonsäure. Sm. 235° (*C.* 1902 [2] 954).
- 11) 2-Methylphenylnitrosomonamid d. Benzol-1,2-Dicarbonsäure (*Am.* 26, 459).
- 12) Monacetylderivat d. Verb.  $C_{15}H_{10}O_3N_2$  (*B.* 35, 1483 *C.* 1902 [1] 1209).
- $C_{15}H_{12}O_4N_4$  2) 2,3-2',3'-Dianhydrid d. Di[5-Nitro-2-Amido-3-Oxymethylphenyl]methan. Sm. 250—251° (*B.* 35, 745 *C.* 1902 [1] 754).
- $C_{15}H_{12}O_5N_2$  7) Azobenzol-4-Carbonsäure-4'-Oxyessigsäure. Sm. 285° (*B.* 34, 3940 *C.* 1902 [1] 118).
- 8) 4-Methylphenylmonamid d. 4-Nitrobenzol-1,2-Dicarbonsäure. Sm. 172° (*C.* 1901 [2] 1160).
- $C_{18}H_{13}O_5N_6$  C 50,5 — H 3,4 — O 22,5 — N 23,6 — M. G. 356.

- $C_{15}H_{12}O_5N_6$  1) s-Di[4-Nitro- $\alpha$ -Imidobenzyl]harnstoff. Sm. 284° u. Zers. (B. 34, 1991).
- $C_{15}H_{12}O_5N_2$  3)  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthan-2-Carbonsäure. Sm. 123° u. Zers. (B. 34, 2830).
- $C_{15}H_{12}O_5N_2$  4) 2,7-Dinitro-4,5-Di[Oxymethyl]xanthen. Sm. 148° (C. 1902 [2] 284).
- $C_{15}H_{12}O_5N_4$  C 50,0 — H 3,3 — O 31,1 — N 15,6 — M. G. 360.
- 1) Salicylidenbisbarbitursäure. Sm. 260° u. Zers. (B. 34, 1343).
- $C_{15}H_{12}O_5N_4$  C 47,9 — H 3,2 — O 34,0 — N 14,9 — M. G. 376.
- 1)  $\alpha\gamma$ -Di[ $\beta$ -Dinitrophenyl]propan. Sm. 162—164° (B. 34, 1293).
- $C_{16}H_{12}NCl$  2) 5-Chlor-1-Methyl-2-Phenylindol. Sm. 109° (D. R. P. 128660 C. 1902 [1] 611).
- $C_{15}H_{12}N_2Br_2$  2) Di[2-Brom-4-Methylphenylimido]methan. Sm. 76—78° (J. pr. [2] 64, 266).
- $C_{16}H_{13}ON$  \*10) 2-Acetylamidofluoren. Sm. 191° (B. 35, 3285 C. 1902 [2] 1262).
- \*21) Phenylamid d.  $\beta$ -Phenylakrylsäure. Sm. 150°? (B. 34, 186).
- 26) Methyläther d. 9- oder 10-Amido-3-Oxyphenanthren. Sm. 117 bis 118° (A. 321, 286 C. 1902 [2] 58).
- $C_{15}H_{13}ON_3$  \*3) 2-Phenylimido-5-Methyl-3-Phenyl-2,3-Dihydro-1,3,4-Oxdiazol. Sm. 75—76° (B. 34, 343).
- \*24) 2-[3-Acetylamidophenyl]benzimidazol. Sm. 288° (B. 34, 2960).
- 26) 2-[4-Acetylamidophenyl]benzimidazol. Sm. 299° (B. 34, 2961).
- 27) 3-Phenylamido-4-Keto-2-Methyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 208—209° (B. 35, 3483 C. 1902 [2] 1318).
- 28) 3-Oxy-6- oder 7-Methyl-2-[2-Amidophenyl]-1,4-Benzdiazin. Sm. 208—209° (B. 34, 4010 C. 1902 [1] 205).
- 29) 4-Keto-3-[2,4-Dimethylphenyl]-3,4-Dihydro-1,2,3-Benztriazin. Sm. 132° (J. pr. [2] 63, 283).
- 30) 8-Keto-7-Aethyl-5-Phenyl-7,8-Dihydro-1,6,7-Benztriazin. Sm. 164° (M. 22, 845).
- 31) Nitril d.  $\alpha$ -[Methyl-4-Nitrosophenyl]amido- $\alpha$ -Phenylelessigsäure. Zers. bei 83° (B. 35, 3353 C. 1902 [2] 1195).
- $C_{15}H_{13}O_2N$  37) Methyläther d. 3-Oxy-5-Methyl-1-Phenylbenzoxazol. Sm. 96—97,5° (M. 22, 248). — \*II, 742.
- 38) 4-Methylphenyläther d. 1-Oxymethylbenzoxazol. Sm. 142—143° (J. pr. [2] 64, 294).
- 39) Acetonylnaphtalimidin. Sm. 142° (M. 22, 840).
- 40)  $\alpha$ -[4-Methylphenyl]imidophenylelessigsäure. Sm. 152—153° u. Zers. (A. ch. [7] 9, 517). — \*II, 941.
- 41) Methylester d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 100° (J. pr. [2] 63, 260).
- $C_{15}H_{13}O_2N_3$  16)  $\beta$ -Semicarbazon- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan ( $\alpha$ -Benzylmonosemicarbazon). Sm. 164—165° (174—175°) (B. 34, 3979 C. 1902 [1] 192; B. 35, 345 C. 1902 [1] 584).
- 17) 5-Keto-3-Oxy-1-Phenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 134° (B. 34, 2338).
- 18) 5-Keto-3-Oxy-4-Phenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 201° (B. 34, 2338).
- 19) 5-Keto-3-Oxy-4-Benzyl-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 232° (B. 34, 2335).
- 20) Methyläther d. 5-Keto-3-Oxy-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 134° (B. 34, 2337).
- 21) Benzoat d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan. Sm. 137—137,5° (B. 35, 72 C. 1902 [1] 403).
- 22) Nitril d.  $\alpha$ -[Methyl-4-Nitrophenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 127° (B. 35, 3355 C. 1902 [2] 1195).
- 23) Amid d.  $\alpha$ -Phenylazobenzoylessigsäure. Sm. 163—165° (B. 35, 924 C. 1902 [1] 806).
- $C_{15}H_{13}O_2Br$  5) Bromoxydimethyldiphenylketon ( $CH_3:CH_3:OH:Br = 1:2:4:?$ ). Sm. 134—135° (G. 32 [2] 272 C. 1902 [2] 1382).
- 6) Bromoxydimethyldiphenylketon ( $CH_3:CH_3:OH:Br = 1:4:2:?$ ). Sm. 115—116° (G. 32 [2] 271 C. 1902 [2] 1382).
- $C_{15}H_{13}O_3N$  \*6) Anthracenmethylnitrat. Sm. 180—183°. K (A. 323, 226, 233 C. 1902 [2] 802).
- \*27) Methylester d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 100° (J. pr. [2] 64, 85).

- $C_{15}H_{19}O_8N$  30) 2-Methoxyphenyläther d. 1-Oxymethylbenzoxazol. Sm. 143—144° (*J. pr.* [2] 64, 295).
- 31) 4-Benzoylamidophenylelessigsäure. Sm. 205—206° (*Soc.* 79, 1354 *C.* 1902 [1] 25).
- 32) Laktone d. 1-[ $\gamma$ -Oximido- $\alpha$ -Oxybutyl]naphtalin-8-Carbonsäure. HCl (*M.* 22, 826).
- 33) Äthylester d. 3-Benzoylpyridin-2-Carbonsäure. Sm. 108—110° (*M.* 22, 116, 845).
- 34) Äthylester d. 4-Benzoylpyridin-3-Carbonsäure. Sm. 75° (*M.* 22, 117).
- 35) Amid d.  $\alpha$ -Benzoxyl- $\alpha$ -Phenylelessigsäure (A. d. Benzoylhandelsäure). Sm. 162° (*Soc.* 79, 1354 *C.* 1902 [1] 25).
- 36) Amid d. 4-Benzoxylphenylelessigsäure. Sm. 167—169° (*Soc.* 79, 1354 *C.* 1902 [1] 25).
- $C_{15}H_{13}O_3N_3$  12) 4-Acetyl-amido-1-[3-Nitrobenzyliden]amidobenzol (D.R.P. 135335 *C.* 1902 [2] 1167).
- 13) 4-Acetyl-amido-1-[4-Nitrobenzyliden]amidobenzol (D.R.P. 135335 *C.* 1902 [2] 1167).
- 14) Methyl ester d. 4-Oxalylamidoazobenzol. Sm. 178—179° (*B.* 35, 1431 *C.* 1902 [1] 1161).
- $C_{15}H_{13}O_3Cl$  1) Äthyläther d. 5-Chlor-1,3,6-Trioxypentanthren. Sm. 175—176° (*B.* 34, 1555).
- $C_{15}H_{13}O_4N$  \*10) Methyl ester d. 2-Phenylamidoformoxylbenzol-1-Carbonsäure. Sm. 96° (*Bl.* [3] 27, 874 *C.* 1902 [2] 935).
- 28) Phenyl-2-Carboxylphenylamidoessigsäure. Sm. 184—186° u. Zers. (*J. pr.* [2] 65, 277 *C.* 1902 [1] 1215).
- 29)  $\alpha$ -Phenylamidoformoxyl- $\alpha$ -Phenylelessigsäure. Na + 3H<sub>2</sub>O, Ba + 3H<sub>2</sub>O, Ag (*Bl.* [3] 27, 450 *C.* 1902 [2] 34).
- 30) Methyl ester d. Benzoyl-4-Oxyphenylamidoameisensäure. Sm. 91 bis 92° (D.R.P. 73285). — \*II, 740.
- $C_{15}H_{13}O_4N_3$  24) Acetat d. 3'-Nitro-4'-Oxy-2-Methylazobenzol. Sm. 108° (*Soc.* 79, 157).
- 25) Acetat d. 3'-Nitro-4'-Oxy-4-Methylazobenzol. Sm. 94° (*Soc.* 79, 158).
- 26) 4-[4-Nitrobenzyliden]amidophenylelessigsäure (D.R.P. 135335 *C.* 1902 [2] 1167).
- 27) 2-Methyl ester d. Diazoamidobenzol-2,2'-Dicarbonsäure. Sm. 127° u. Zers. (*J. pr.* [2] 63, 291).
- $C_{15}H_{13}O_4Br$  4) Äthylester d. 3-Brom-6-Methyl-4-Phenyl-1,2-Pyron-5-Carbonsäure. Sm. 72° (*B.* 35, 788 *C.* 1902 [1] 761).
- $C_{15}H_{13}O_5N_3$  8) Äthylester d. 5-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 128 bis 129° (*Soc.* 79, 53).
- 9) Äthylester d. 4'-Nitro-4-Oxyazobenzol-3-Carbonsäure. Sm. 220 bis 225° (*Soc.* 79, 53).
- $C_{15}H_{13}O_5J$  1) 1,4-Diacetat d. 3-Jod-1,2,4-Trioxynaphtalin-2-Methyläther. Sm. 162—163° (*B.* 28, 347). — \*II, 626.
- $C_{15}H_{13}O_6N_5$  2) 2,4,6-Trinitro-1-[4-Dimethylamidophenyl]imidomethylbenzol (*C.* 1901 [2] 69).
- $C_{15}H_{13}O_7Cl$  1) Dimethylester d. 2-Chlor-6-Methoxyl-1,3-Diketo-4-Methyl-2,3-Dihydroinden-2,7-Dicarbonsäure (Trimethylester d. Chlorecarninondicarbonsäure). Sm. 165—166° (*B.* 34, 2156).
- $C_{15}H_{13}O_7Br$  1) Dimethylester d. 2-Brom-6-Methoxyl-1,3-Diketo-4-Methyl-2,3-Dihydroinden-2,7-Dicarbonsäure. Sm. 168—170° (*B.* 34, 2156).
- $C_{15}H_{13}NS$  4)  $\alpha$ -Rhodan-4-Methyldiphenylmethan. Fl. (*C.* 1902 [2] 789).
- $C_{15}H_{13}N_2Cl$  5) Nitril d. 2-Methylphenylamido-4-Chlorphenylelessigsäure. Sm. 106° (*J. pr.* [2] 65, 275 *C.* 1902 [1] 1215).
- 6) Nitril d. 3-Methylphenylamido-4-Chlorphenylelessigsäure. Sm. 105° (*J. pr.* [2] 65, 273 *C.* 1902 [1] 1215).
- 7) Nitril d. 4-Methylphenylamido-4-Chlorphenylelessigsäure. Sm. 80° (*J. pr.* [2] 65, 272 *C.* 1902 [1] 1214).
- $C_{15}H_{13}N_3Br$  \*5)  $\beta$ -Brom- $\gamma$ -Phenylimido- $\alpha$ -Phenylamidopropen. Zers. 144—146° (*B.* 34, 514).
- $C_{15}H_{13}N_3S$  4) 3-Merkapto-5-Phenyl-1-[4-Methylphenyl]-1,2,4-Triazol. Sm. 170 bis 171° (*Am.* 27, 267 *C.* 1902 [1] 1299).
- 5) Methyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 102 bis 103° (*Am.* 27, 265 *C.* 1902 [1] 1299).

- $C_{15}H_{13}N_3S_2$  2) 5-Merkapto-2-Phenylimido-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 162—163° (*B.* 34, 316).
- 3) Methyläther d. 5-Merkapto-2-Phenylimido-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 67°. (2HCl, PtCl<sub>4</sub>) (*B.* 34, 313, 334).
- 4) 3-Merkapto-5-Thiocarbonyl-4-Phenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 162—163°. Na (*B.* 34, 314).
- 5) 3-Merkapto-5-Thiocarbonyl-1-Phenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 178° (*B.* 34, 317).
- 6) Methyläther d. 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 120° (und 125°) (*B.* 34, 309, 342).
- 7) Verbindung (aus d. Methyläther d. Phenylimido- $\alpha$ -Phenylhydrazidomerkapto-methan). Sm. 156—157° (*B.* 34, 342).
- $C_{15}H_{13}ClS_3$  1) Chlorid (aus Trithiodibutolakton). Sm. 227°. 2 + PtCl<sub>4</sub> (*B.* 34, 3402).
- $C_{15}H_{13}BrS_3$  1) Bromid (aus Trithiodibutolakton). Sm. 267° u. Zers. (*B.* 34, 3403).
- $C_{15}H_{13}JS_3$  1) Jodid (aus Trithiodibutolakton). Sm. 275° (*B.* 34, 3404).
- $C_{15}H_{14}ON_3$  \*36) Phenylhydrazid d.  $\beta$ -Phenylakrylsäure. Sm. 183° (187°) (*B.* 34, 186, 2075).
- 44)  $\gamma$ -Keto- $\alpha$ - $\gamma$ -Di[3-Amidophenyl]propen. 2HCl (*B.* 34, 3528).
- 45) Carbonyl-2,2'-Diamido-4,4'-Dimethylbiphenyl. Sm. 339°. +  $\frac{1}{3}C_2H_4O_2$  (*B.* 34, 3334).
- 46) 4-[ $\alpha$ -Keto- $\gamma$ -Phenylimidobutyl]pyridin? Sm. 103—104° (*M.* 22, 621).
- 47) Phenyläther d. 2-Oxymethyl-5-Methylbenzimidazol. Sm. 170 bis 171°. HCl, Pikrat (*J. pr.* [2] 63, 192).
- 48) 3-Phenylamido-2-Keto-1,2,3,4-Tetrahydrochinolin. Sm. 178° (*B.* 35, 517 *C.* 1902 [1] 658).
- 49) Benzylidenhydrazid d. Phenylelessigsäure. Sm. 154° (*J. pr.* [2] 64, 317).
- $C_{15}H_{14}ON_4$  \*4) Formazylmethylketon. Sm. 134—135°. Na + C<sub>2</sub>H<sub>6</sub>O, Ag (*J. pr.* [2] 64, 222).
- \*5)  $\alpha$ -Phenylazo- $\alpha$ -Acetylphenylhydrazonmethan. Sm. 188—188,5° (*J. pr.* [2] 65, 130 *C.* 1902 [1] 995).
- $C_{15}H_{14}OS_3$  1) Base (aus Trithiodibutolakton). Chlorid, 2 Chlorid + PtCl<sub>4</sub>, Bromid, Jodid, Nitrat, Rhodauat (*B.* 34, 3402).
- $C_{15}H_{14}O_2N_2$  \*3) Acetyl- $s$ -Diphenylharnstoff. Sm. 105° (106,5°) (*J. pr.* [2] 64, 261; *B.* 35, 1877 *C.* 1902 [2] 32).
- \*18) Methylenäther d.  $\alpha$ -Phenylhydrazon- $\alpha$ -[3,4-Dioxyphenyl]äthan. Sm. 113° (*B.* 34, 1471).
- \*51) Methyläther d. Benzoylimidophenylamidooxymethan. Fl. (*Am.* 26, 231).
- 62)  $\alpha$ -Benzyl- $\beta$ -Benzoylharnstoff. Sm. 165—166° (*Am.* 27, 219 *C.* 1902 [1] 916).
- 63)  $\alpha$ -[4-Methylphenyl]- $\beta$ -Benzoylharnstoff. Sm. 222—223° (*Am.* 27, 219 *C.* 1902 [1] 916). — \*II, 736.
- 64) Benzoylpseudobenzylharnstoff (Benzoylimidobenzylamidooxymethan). Sm. 89° (*Am.* 24, 208; *Am.* 27, 218 *C.* 1902 [1] 915).
- 65) Benzoylpseudo-4-Methylphenylharnstoff (Benzoylimido-4-Methylphenylamidooxymethan). Sm. 80—81° (*Am.* 24, 209; *Am.* 27, 218 *C.* 1902 [1] 915).
- 66) Methyläther d.  $\alpha$ -Imido- $\alpha$ -Benzoylphenylamidooxymethan. Sm. 64—65° (*Am.* 26, 232).
- 67) Oxim d. Acetonynaphtalimidin. Sm. 233° (*M.* 22, 841).
- 68)  $\beta$ -[3-Nitrophenyl]- $\alpha$ -[5-Aethyl-2-Pyridyl]äthen. Sm. 66°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Pikrat (*B.* 34, 2227).
- 69)  $\beta$ -[4-Nitrophenyl]- $\alpha$ -[5-Aethyl-2-Pyridyl]äthen. Sm. 116°. HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), Pikrat (*B.* 34, 2230).
- 70) Amid d. 4-Benzoylamidophenylelessigsäure. Sm. 248° (*Soc.* 79, 1353 *C.* 1902 [1] 25).
- 71) Methylenamid d. Benzolcarbonsäure. Sm. 218° (*C. r.* 133, 1214 *C.* 1902 [1] 256).
- 72) Benzylidenhydrazid d.  $\alpha$ -Oxyphenylelessigsäure. Sm. 149° (*B.* 34, 2797).
- 73) 2-Oxybenzylidenhydrazid d. Phenylelessigsäure. Sm. 188° (*J. pr.* [2] 64, 318).
- $C_{15}H_{14}O_2N_4$  \*1)  $\alpha\beta$ -Di[Phenylhydrazon]propionsäure. Sm. 222—224° (*Soc.* 81, 428 *C.* 1902 [1] 857).



- $C_{15}H_{14}O_2N_4$  \*8) Phenylamidoformiat d.  $\alpha$ -Oximido- $\alpha$ -Phenylazoäthan (Carbanilphenyläthylidenoxy-R-Triazan). Sm. 123,5—124° (B. 35, 72 C. 1902 [1] 403; B. 35, 689 C. 1902 [1] 726; B. 35, 757 C. 1902 [1] 726; B. 35, 3271 C. 1902 [2] 125).
- 9) 4-[4-Methylphenyl]amido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 238° u. Zers. (C. 1901 [1] 936).
- 10) 4-Methylphenylamido-3,5-Diketo-1-Phenyltetrahydro-1,2,4-Triazol. Sm. 167—168° (B. 34, 2316; B. 35, 1566 C. 1902 [1] 1231).
- 11) 4-Phenylamido-3-Oxy-5-Keto-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 239,5° (C. 1901 [1] 936).
- 12) Methyläther d. 4-Phenylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 153° (156°) (C. 1901 [1] 935; B. 34, 2318 Ann.).
- $C_{15}H_{14}O_2N_6$  C 58,1 — H 4,5 — O 10,3 — N 27,1 M. G. 310.
- 1) 6-[4-Nitrophenylhydrazon]methyl-2,4-Dimethyldiazobenzolimid. Sm. 153,5—156,5° (B. 34, 1319).
- $C_{15}H_{14}O_3N_2$  2) 2-Methylazobenzol-4-Oxyessigsäure. Sm. 123° (B. 34, 3940 C. 1902 [1] 117).
- 48) 4-Methylazobenzol-4'-Oxyessigsäure. Sm. 200°. Na, Ba (B. 34, 3940 C. 1902 [1] 118).
- 49) Aethylester d. 4-Methylbenzo- $\beta$ -Ketopentamethylenazinmethylsäure. Zers. bei 200° (Bl. [3] 25, 721).
- 50)  $\alpha$ -Amid d. Phenyl-2-Carboxylphenylamidoessigsäure. Sm. 236° (J. pr. [2] 65, 277 C. 1902 [1] 1215).
- 51) 4-Nitro-2,3-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 208 bis 209° (B. 34, 2247). — \*II, 732.
- 52) 5-Nitro-2,3-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 227 bis 228° (B. 34, 2247). — \*II, 732.
- 53) 6-Nitro-2,3-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 177 bis 178° (B. 34, 2247). — \*II, 732.
- 54) 2-Nitro-3,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 199 bis 200° (B. 34, 2251). — \*II, 732.
- 55) 5-Nitro-3,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 223 bis 224° (B. 34, 2251). — \*II, 732.
- 56) 6-Nitro-3,4-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 149 bis 150° (B. 34, 2251). — \*II, 732.
- 57) 2-Oxybenzylidenhydrazid d.  $\alpha$ -Oxyessigphenyläthersäure. Sm. 179° (B. 34, 2797).
- 58)  $\alpha$ -Phenyläthylidenhydrazid d. 2-Oxyphenylkohlsäure (2-Oxyphenylester d.  $\alpha$ -Phenyläthylidenhydrazidoameisensäure). Sm. 190—191° (A. 317, 194).
- 59)  $\alpha$ -Phenyläthylidenhydrazid d. 3-Oxyphenylkohlsäure. Sm. 174° (A. 317, 198).
- 60)  $\alpha$ -Phenyläthylidenhydrazid d. 4-Oxyphenylkohlsäure. Sm. 120 bis 121° (A. 317, 203).
- $C_{15}H_{14}O_3N_4$  7) s-Di[Phenylamidoformyl]harnstoff. Sm. 140° (Soc. 79, 843).
- 8) 1'-Methyläther d. 4-Phenylamido-3-Oxy-5-Keto-1-[4-Oxyphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 242° (C. 1901 [1] 936; B. 34, 2323).
- 9) 4'-Methyläther d. 4-[4-Oxyphenyl]amido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 205,5° (C. 1901 [1] 936; B. 34, 2322).
- $C_{15}H_{14}O_3Hg$  1) 5-Acetat d. 6-Oxy-3-Methylazobenzol-5-Quecksilberoxydhydrat. Sm. 269° u. Zers. (C. 1901 [1] 453).
- $C_{15}H_{14}O_4N_2$  19)  $\alpha\gamma$ -Di[ $\beta$ -Nitrophenyl]propan. Sm. 139° (B. 34, 1293).
- 20) Di[5-Nitro-2-Methylphenyl]methan. Sm. 153° (D.R.P. 67001; B. 27, 3314). — \*II, 115.
- 21) Di[ $\beta$ -Nitro- $\beta$ -Methylphenyl]methan. Sm. 170° (D.R.P. 67001). — \*II, 115.
- 22) Acetyl- $\beta$ -Nitrophenyl-2-Oxybenzylamin. Sm. 126° (B. 32, 2060). — \*II, 427.
- 23) 4,4'-Diamidodiphenylmethan-3,3'-Dicarbonsäure. Zers. bei 239° (254°).  $(NH_4)_2$  (J. pr. [2] 63, 255; A. 324, 127 C. 1902 [2] 1253).
- 24) Di[Phenylamido]malonsäure. Anilinsalz (B. 35, 1820 C. 1902 [2] 25).
- 25) Di[Phenylamido]methan-2,2'-Dicarbonsäure. Sm. 158° u. Zers. (A. 324, 122 C. 1902 [2] 1253).

- $C_{15}H_{14}O_4N_2$  26) 2-Nitrophenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 88° (B. 34, 2057).  
 27) 3-Nitrophenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 118° (B. 34, 2062).  
 28) 4-Nitrophenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 141 bis 142° (B. 34, 2065).
- $C_{15}H_{11}O_4N_4$  2) 4-[2,4-Dinitrobenzyliden]amido-1-Dimethylamidobenzol +  $H_2O$ . Sm. 193° (196°) (C. 1901 [2] 69; B. 35, 1226 C. 1902 [1] 1000).
- $C_{15}H_{11}O_4N_6$  2)  $\alpha$ -Phenylnitrosohydrazon- $\beta$ -[4-Nitrophenyl]hydrazon- $\alpha$ -Oxypropan. Sm. 147—148° (J. pr. [2] 64, 242; B. 34, 546).
- $C_{15}H_{14}O_4S_2$  1) 1,3-Benzylidendi[Sulfonmethyl]benzol. Sm. oberh. 300° u. Zers. (B. 34, 1776).
- $C_{15}H_{11}O_5N_4$  10) Monoacetylderivat d.  $\alpha$ -[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Amidophenyl]methan. Sm. 241—242° u. Zers. (B. 35, 741 C. 1902 [1] 753).  
 11) Amid d.  $\alpha$ -[Methyl- $\beta$ -Dinitrophenyl]amido- $\alpha$ -Phenylessigsäure. Zers. bei 170—172° (B. 35, 3357 C. 1902 [2] 1195).
- $C_{15}H_{14}O_5S$  1) Phenoxydimethyl-4-Methylphenylketon- $\beta$ -Sulfonsäure. Sm. 167° (B. 35, 3564 C. 1902 [2] 1313).  
 C 49,7 — H 3,9 — O 30,9 — N 15,5 — M. G. 362.
- $C_{15}H_{14}O_7N_4$  1) s-Di[5-Amido-2-Oxyphenyl]harnstoff-3,3'-Dicarbonsäure (D.R.P. 94634). — \*II, 899.  
 C 51,4 — H 4,0 — O 36,6 — N 8,0 — M. G. 350.
- $C_{15}H_{14}O_8N_2$  1) Diamid d. Di[4,5,6-Trioxiphenyl]methan-2,2'-Dicarbonsäure (Methylendigallamid). Zers. oberh. 250°. Cu (J. pr. [2] 63, 89).  
 C 43,5 — H 3,4 — O 46,4 — N 6,7 — M. G. 414.
- $C_{15}H_{14}N_2S$  12) 3-Thiocarbonyl-1,5-Dimethyl-2-[2-Naphtyl]-2,3-Dihydropyrazol. Sm. 135° (A. 320, 31 C. 1902 [1] 666).
- $C_{15}H_{14}N_2S_2$  3) Thioharnstoff d. Di[4-Amidobenzyl]sulfid. Sm. 220° (B. 28, 1339). — \*II, 646.  
 4) Phenylhydrazonmethylenäther d. 1,2-Di[Merkaptomethyl]benzol. Sm. 202° (J. pr. [2] 65, 478 C. 1902 [2] 28).
- $C_{15}H_{11}N_4S$  2) Methyläther d. 5-Phenylimido-3-Merkapto-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 226—227° (B. 35, 1713 C. 1902 [2] 29).
- $C_{15}H_{15}ON$  \*21)  $\beta$ -Oximido- $\alpha$ - $\gamma$ -Diphenylpropan. Sm. 121—122° (B. 34, 2076).  
 \*23)  $\alpha$ -Oximido- $\beta$ -[4-Methylphenyl]- $\alpha$ -Phenyläthan. Sm. 109° (C. 1902 [1] 1011).  
 \*30) Phenylbenzimidooäthyläther. Sd. 176°<sub>12</sub> (Soc. 79, 698; Soc. 81, 593 C. 1902 [1] 1055, 1333).  
 \*71) 2,6-Dimethylphenylamid d. Benzolcarbonsäure. Sm. 168—168,5° (A. 316, 303).  
 87) Äthyläther d. 2-Benzylidenamido-1-Oxybenzol. Sd. 215—216°<sub>20</sub> (B. 34, 833 Ann.).  
 88) N-[2-Methylphenyl]benzimidomethyläther. Sd. 173°<sub>15</sub> (Soc. 81, 596 C. 1902 [1] 1056).  
 89) N-[4-Methylphenyl]benzimidomethyläther. Sd. 177°<sub>12</sub> (Soc. 81, 598 C. 1902 [1] 1056).  
 90)  $\delta$ -Anhydro- $\beta$ -Amido- $\alpha$ -Phenyl- $\epsilon$ -Methyl- $\alpha$ - $\gamma$ -Heptatrien- $\zeta$ -Carbon-säure. Sm. 248° (A. 306, 246).  
 91) Diphenylmethylamid d. Essigsäure. Sm. 146—147° (Am. 26, 354).
- $C_{15}H_{15}ON_3$  23)  $\beta$ -Acetyl- $\alpha$ -Benzylidenamido- $\alpha$ -Phenylhydrazin. Sm. 162—164° u. Zers. (B. 35, 1902 C. 1902 [2] 42).  
 24) 4-Propionylamidobenzol. Sm. 170° (Soc. 81, 982 C. 1902 [2] 360).  
 25) 7-Dimethylamido-3-Oxy-2-Methyl-5,10-Naphtdiazin (C. 1901 [2] 1108).  
 26)  $\alpha$ -Phenyläthylidenhydrazid d. Phenylamidoameisensäure. Sm. 187 bis 188° (B. 34, 4301 C. 1902 [1] 304).  
 \*40) Phenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 118,5—119°; Sd. 211—212°<sub>14</sub> (B. 34, 1839).  
 53) Dimethyläther d. 4-[4-Oxybenzyliden]amido-1-Oxybenzol. Sm. 142° HCl (B. 34, 832).  
 54) 1-Äthyläther d. 2-[2-Oxybenzyliden]amido-1-Oxybenzol. Sd. 228 bis 229°<sub>17</sub> (B. 34, 833 Ann.).

- $C_{15}H_{15}O_2N$  55) Acetyl-3'-Oxy-4-Methyldiphenylamin. Sm. 213° (*J. pr.* [2] 65, 50 C. 1902 [1] 578).
- 56) Methyläther d. 4'-Acetylamido-4-Oxybiphenyl. Sm. 193° (D.R.P. 85988). — \*II, 538.
- 57) anti-Oxim d. Oxydimethyldiphenylketon. ( $CH_3:CH_3:OH = 1:2:4$ ). Sm. 165—166° (*G.* 32 [2] 274 C. 1902 [2] 1383).
- 58) syn-Oxim d. Oxydimethyldiphenylketon. ( $CH_3:CH_3:OH = 1:2:4$ ). Sm. 140,5—141,5° (*G.* 32 [2] 274 C. 1902 [2] 1383).
- 59)  $\beta$ -Phenyläther d.  $\alpha$ -Oximido- $\beta$ -Oxy- $\alpha$ -[4-Methylphenyl]äthan. Sm. 96° (*B.* 35, 3564 C. 1902 [2] 1313).
- 60) 2,8-Dioxy-3,7-Dimethyl-5,10-Dihydroakridin (*C.* 1901 [1] 1130; 1901 [2] 78).
- 61) Phenylamidoformiat d. 2-Oxy-1-Aethylbenzol. Sm. 140—141° (*B.* 34, 53; *B.* 35, 1631 C. 1902 [1] 1359).
- 62) Phenylamid d. 3-Oxybenzoläthyläther-1-Carbonsäure. Sm. 104° (D.R.P. 65952). — \*II, 903.
- 63) Methylphenylamid d. Oxyessigphenyläthersäure. Sm. 94° (*B.* 34, 2126).
- $C_{15}H_{15}O_2N_5$  25) 4-Nitro-1-[4-Dimethylamidobenzyliden]amidobenzol. Sm. 198 bis 199°. HCl (*C. r.* 134, 550 C. 1902 [1] 874).
- 26) 4-[4-Nitrobenzyliden]amido-1-Dimethylamidobenzol. Sm. 217° (*B.* 35, 1239 C. 1902 [1] 1001).
- 27) Methyläther d.  $\alpha$ -Phenylamidoformylimido- $\alpha$ -Phenylamido- $\alpha$ -Oxy-methan. Sm. 111° (*Am.* 26, 233).
- 28) 2,4-Dimethyldiazoamidobenzol-2'-Carbonsäure. Sm. 117° u. Zers. (*J. pr.* [2] 63, 303).
- 29) Azobenzol-4-Methylamidoessigsäure. Na, Ba (*B.* 35, 577 C. 1902 [1] 580).
- 30) 4-Methylazobenzol-4'-Amidoessigsäure. Na, Ba (*B.* 35, 581 C. 1902 [1] 581).
- 31) Methylester d. 4-Amido-2-Methylazobenzol-2'-Carbonsäure. Sm. 93° (*J. pr.* [2] 63, 279).
- 32) Methylester d. 2'-Methyldiazoamidobenzol-2-Carbonsäure. Sm. 69,5° (*J. pr.* [2] 63, 276).
- 33) Methylester d. 3'-Methyldiazoamidobenzol-2-Carbonsäure. Sm. 87,5° (*J. pr.* [2] 63, 277).
- 34) Methylester d. 4'-Methyldiazoamidobenzol-2-Carbonsäure. Sm. 115,5° (*J. pr.* [2] 63, 277).
- 35) Aethylester d. Diazoamidobenzol-2-Carbonsäure. Sm. 76° (*J. pr.* [2] 64, 74).
- 36) Aethylester d. Azobenzol-4-Amidoameisensäure (*B.* 35, 582 C. 1902 [1] 581).
- 37) Amid d.  $\alpha$ -[Methyl-4-Nitrosophenyl]amido- $\alpha$ -Phenylessigsäure. Zers. bei 185—186° (*B.* 35, 3355 C. 1902 [2] 1195).
- 38) Phenylamid d. Phenylamidoessigsäure-2-Carbonsäureamid. Sm. 185° (D.R.P. 135638 C. 1902 [2] 1235).
- $C_{15}H_{15}O_2N_5$  5)  $\alpha$ -Phenylnitrosohydrazon- $\beta$ -Phenylhydrazon- $\alpha$ -Oxypropan. Sm. 128—129° u. Zers. (*B.* 34, 546; *J. pr.* [2] 64, 242).
- $C_{15}H_{15}O_2Cl$  1) Diphenyläther d.  $\beta$ -Chlor- $\alpha$ - $\gamma$ -Dioxypropan. Sm. 37° (*Soc.* 79, 1223).
- $C_{15}H_{15}O_3P$  1) Anhydrid d.  $\beta,\beta'$ -Diphenylisopropylphosphinsäure. Sm. 151° (*B.* 34, 1294).
- $C_{15}H_{15}O_3N$  27) 3-Methyläther d. 4-Benzoylamido-3,5-Dioxy-1-Methylbenzol. Sm. 216—218° (*M.* 22, 247). — \*II, 742.
- 28) 4-Methyläther- $\beta$ -Phenyläther d.  $\alpha$ -Oximido- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]-äthan. Sm. 105° (*B.* 35, 3565 C. 1902 [2] 1313).
- 29) Monophenylamidoformiat d. 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol. Sm. 116 bis 117° (*B.* 34, 1810).
- 30) 2-Methylphenylamid d. Oxyessig-2-Oxyphenyläthersäure. Sm. 105°; Sd. 220° (*J. pr.* [2] 61, 360). — \*II, 552.
- 31) 4-Methoxyphenylamid d. Oxyessigphenyläthersäure. Sm. 135 bis 136° (D.R.P. 82105). — \*II, 408.
- $C_{15}H_{15}O_3N_3$  6) 4-Acetylamidophenyl-4-Nitrobenzylamin (D.R.P. 135335 C. 1902 [2] 1167).

- $C_{15}H_{15}O_5N_3$  7) Aethyläther d. 3'-Nitro-4'-Oxy-2-Methylazobenzol. Sm. 83° (*Soc.* 79, 157).
- 8) Aethyläther d. 3'-Nitro-4'-Oxy-3-Methylazobenzol. Sm. 92° (*Soc.* 79, 158).
- 9) Aethyläther d. 3'-Nitro-4'-Oxy-4-Methylazobenzol. Sm. 118° (*Soc.* 79, 159).
- 10) Amid d.  $\alpha$ -[Methyl-4-Nitrophenyl]amido- $\alpha$ -Phenyllessigsäure. Sm. 210° u. Zers. (*B.* 35, 3358 *C.* 1902 [2] 1196).
- $C_{15}H_{15}O_4N$  \*4) 2,5-Dimethyl-1-[4-Methylphenyl]pyrrol-3,4-Dicarbonsäure. Sm. 249—250° (*B.* 35, 191 *C.* 1902 [1] 415).
- 7) Oxim d. Trioxydiphenylketondimethyläther. (OH : OH : OH = 1 : 2 : 3). Sm. 137—138° (*G.* 32 [2] 276 *C.* 1902 [2] 1383).
- 8) 2,5-Dimethyl-1-[2-Methylphenyl]pyrrol-3,4-Dicarbonsäure. Sm. 203—204° u. Zers. *Ag.* (*B.* 35, 686 *C.* 1902 [1] 715).
- 9) 2,5-Dimethyl-1-[3-Methylphenyl]pyrrol-3,4-Dicarbonsäure. Sm. 222—223° u. Zers. *Ag.* (*B.* 35, 688 *C.* 1902 [1] 716).
- 10) Dimethylester d. 3-Phenylpyrrol-4-Carbonsäure-5-Methylcarbon-säure. Sm. 126° (*B.* 35, 3004 *C.* 1902 [2] 1120).
- $C_{15}H_{15}O_4Br$  2) Verbindung (aus Lapachonon). Sm. 140° (*C.* 1901 [1] 114).
- $C_{15}H_{15}O_5N$  3) Aethylster d. 3-Acetoxy-1-Acetylinol-2-Carbonsäure. Sm. 82° (*B.* 34, 1855; *D.R.P.* 131400 *C.* 1902 [1] 1343).
- 4) 4-Aethoxyphenylamid d. 3,4,5-Trioxymethyl-1-Carbonsäure +  $1\frac{1}{2}H_2O$ . Sm. 219°. + 2 Molec. Anilin (*J. pr.* [2] 63, 77).
- $C_{15}H_{15}O_6N_3$  \*1) Triäthylester d. 1,2,3-Tricyan-R-Trimethylen-1,2,3-Tricarbon-säure. Sm. 119° (*B.* 34, 1045, 3714).
- $C_{15}H_{15}N_3S$  4) Amid d. Phenylamido-2-Methylphenylimidothioessigsäure. Sm. 134° (*C.* 1901 [1] 69).
- 5) Amid d. Phenylamido-4-Methylphenylimidothioessigsäure. Sm. 139° (*C.* 1901 [1] 69).
- $C_{15}H_{15}N_3S_6$  1)  $\alpha$ -Phenyl- $\alpha$ -[Phenylimidomerkaptomethyläthermethyl]hydrazin- $\beta$ -Dithiocarbonsäure (*B.* 34, 338).
- $C_{15}H_{16}ON_2$  \*5) s-Dibenzylharnstoff. Sm. 167° (*J. pr.* [2] 64, 321).
- \*7) s-Di[2-Methylphenyl]harnstoff. Sm. 249—250° (*Soc.* 79, 105).
- \*9) s-Di[4-Methylphenyl]harnstoff. Sm. 260—261° (265—266°) (*Soc.* 79, 103; *B.* 35, 1878 *C.* 1902 [2] 33).
- 72) Aethylphenyl-4-Nitrosobenzylamin. Sm. 62° (*B.* 35, 1294 *C.* 1902 [1] 1094).
- 73) 2-[2-Oxybenzyliden]amido-1-Dimethylamidobenzol. Sm. 155° (*B.* 34, 4203 *C.* 1902 [1] 262).
- 74) Methyläther d.  $\alpha$ -Phenylamido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sd. 295 bis 300°<sub>40</sub> (*D.R.P.* 80568). — \*II, 402.
- 75)  $\alpha$ -[4-Methylphenyl]imido- $\alpha$ -[4-Methylphenyl]hydroxylamido-methan. HCl, Cu (*B.* 35, 1877 *C.* 1902 [2] 33).
- 76) 2-Amido-8-Oxy-3,7-Dimethyl-5,10-Dihydroakridin (*C.* 1901 [2] 78).
- 77) 2,4-Dimethylphenylamid d. 2-Amidobenzol-1-Carbonsäure. Sm. 138° (*J. pr.* [2] 63, 285).
- 78) Amid d.  $\alpha$ -Methylphenylamido- $\alpha$ -Phenyllessigsäure. Sm. 133° (*B.* 35, 3355 *C.* 1902 [2] 1195).
- $C_{15}H_{16}ON_4$  \*1)  $\beta\gamma$ -Di[Phenylhydrazon]- $\alpha$ -Oxypropan. Sm. 136—137° (*B.* 34, 1532).
- $C_{15}H_{16}O_2N_2$  \*26) Acetylharnalin (*C.* 1901 [1] 959).
- 43) Aethylphenyl-3-Nitrobenzylamin. Sm. 69°. HCl, Pikrat (*B.* 35, 1293 *C.* 1902 [1] 1094).
- 44) p-Nitroäthylphenylbenzylamin (*J. pr.* [2] 63, 427).
- 16) 4-Amido-5-[4-Nitrophenylhydrazon]methyl-1,3-Dimethylbenzol. Sm. 223—224° (*B.* 34, 1321 Ann.).
- 17) 3-Methyläther d.  $\alpha$ -[3,4-Dioxybenzyliden]amido- $\alpha$ -Phenylguanidin. Pikrat (*G.* 31 [1] 532).
- 18) 2,6-Diketo-1,3,8-Trimethyl-7-Benzylpurin. Sm. 159—160,5° (*D.R.P.* 128212 *C.* 1902 [1] 549).
- $C_{15}H_{16}O_3N_2$  17)  $\alpha$ -Oxy-3-Nitro-4'-Dimethylamidodiphenylmethan. Sm. 74° (*D.R.P.* 45806). — \*II, 658.
- 18)  $\alpha$ -Oxy-4-Nitro-4'-Aethylamidodiphenylmethan. Sm. 99° (*D.R.P.* 45806). — \*II, 658.

- $C_{15}H_{16}O_3N_2$  19)  $\beta$ -Oxy- $\beta$ -[2-Nitrophenyl]- $\alpha$ -[5-Aethyl-2-Pyridyl]äthan. Sm. 110°. (2HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 34, 1897).
- 20)  $\beta$ -Oxy- $\beta$ -[4-Nitrophenyl]- $\alpha$ -[5-Aethyl-2-Pyridyl]äthan. Sm. 147°. HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 2231).
- $C_{15}H_{16}O_3Cl_2$  2) 6-Chloracetyl-2,4-Diacetyl-1,3,5-Trimethylbenzol. Sm. 130° (B. 34, 1827).
- $C_{15}H_{16}O_4N_2$  3) 2,5-Dimethyl-1-[2-Amido-4-Methylphenyl]pyrrol-3,4-Dicarbon-säure. Sm. 205° u. Zers. Ag (B. 35, 190).
- 4) Diäthylester d. 4-Phenylpyrazol-3,5-Dicarbon-säure. Sm. 96° (B. 35, 34 C. 1902 [1] 424; B. 35, 785 C. 1902 [1] 760).
- $C_{15}H_{16}O_5N_2$  2) Dimethylester d. 5-Acetyl-4-Phenyl-4,5-Dihidropyrazol-3,5-Di-carbonsäure. Sm. 103° (B. 35, 785 C. 1902 [1] 760).
- $C_{15}H_{16}NJ$  1) Jodmethylat d. 4-Benzylidenamido-1-Methylbenzol. Sm. 147 bis 148° (B. 34, 836).
- $C_{15}H_{16}N_2S$  29)  $\alpha$ -Methyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 152° (Am. 26, 355).
- 30) isom. 4-Methyldiphenylmethylthioharnstoff. Sm. 162—163° (C. 1902 [2] 789).
- $C_{15}H_{16}N_4S_4$  2) Methylenester d.  $\beta$ -Phenylhydrazidodithioameisensäure. Sm. 167° u. Zers. (J. pr. [2] 65, 475 C. 1902 [2] 28).
- $C_{15}H_{16}ClP$  1) Phenyl-2,4,5-Trimethylphenylehlorphosphin. Sd. 356° (A. 315, 72).
- $C_{15}H_{16}Cl_2P$  1) Phenyl-2,4,5-Trimethylphenylphosphortrichlorid (A. 315, 73).
- $C_{15}H_{17}ON$  \*7) Methyläther d. 4-Oxy-1-[2-Methylphenyl]amidomethylbenzol. Sm. 55° (A. 315, 142).
- 26) Aethylbenzyl-3-Oxyphenylamin (3-Aethylbenzylamido-1-Oxybenzol) (D.R.P. 59996, 98971; J. pr. [2] 63, 423). — \*II, 395.
- 27) 5-Oxy-4-Phenylamidomethyl-1,2-Dimethylbenzol. Sm. 139—140° (B. 35, 137 C. 1902 [1] 467).
- 28) 5-Oxy-2-Phenylamidomethyl-1,4-Dimethylbenzol. Sm. 203—204° (B. 35, 139 C. 1902 [1] 467).
- 29) 6-Oxy-4-Phenylamidomethyl-1,3-Dimethylbenzol. Sm. 109—110° (B. 35, 136 C. 1902 [1] 466, 467).
- 30) Aethyläther d. 3'-Oxy-4-Methyldiphenylamin. Sm. 30° (J. pr. [2] 65, 53 C. 1902 [1] 578).
- 31) Aethyläther d. Phenyl-4-Oxybenzylamin. Sm. 65° (A. 315, 142).
- 32) 1-Benzoylmethylamido-2,3-Dihydro-R-Hepten. Sm. 65—67° (A. 317, 284).
- 33)  $\alpha$ -Oxy- $\alpha$ -Phenyl- $\beta$ -[5-Aethyl-2-Pyridyl]äthan. Sm. 88°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 34, 1900).
- $C_{15}H_{17}ON_5$  C 63,6 — H 6,0 — O 5,6 — N 24,7 — M. G. 283.
- 1) Phenyl-2-Methoxyphenylbiguanid. HNO<sub>3</sub> (B. 34, 2603).
- $C_{15}H_{17}OBr$  1)  $\gamma$ -Brom- $\zeta$ -Keto- $\beta$ -Benzyliden- $\beta$ -Methyl- $\beta$ -Hepten. Sm. 155° (A. 319, 93).
- $C_{15}H_{17}OP$  1) Methyldi[4-Methylphenyl]phosphinoxid. Sm. 143° (A. 315, 84).
- $C_{15}H_{17}O_2N$  14) Aethylester d. 2,5-Dimethyl-1-Phenylpyrrol-3-Carbon-säure. Sm. 43° (B. 35, 1547 C. 1902 [1] 1226).
- $C_{15}H_{17}O_2N_3$  4) Dimethyläther d. Di[4-Oxyphenyl]guanidin. Sm. 153,5°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), H<sub>2</sub>SO<sub>4</sub> (D.R.P. 68706). — \*II, 406.
- 5) Aethylbenzamidphenylhydrazonhydrat. Sm. 105° (B. 34, 3792 C. 1902 [1] 41).
- $C_{15}H_{17}O_2P$  2) Phenyl-2,4,5-Trimethylphenylphosphinsäure. Sm. 181°. Phenyl-hydrazinsalz (A. 315, 73).
- $C_{15}H_{17}O_3P$  \*3)  $\beta\beta$ -Diphenylisopropylphosphinsäure. Sm. 142°. Ag<sub>2</sub>, Anilinsalz, Phenylhydrazinsalz (B. 34, 1291).
- $C_{15}H_{17}O_5P$  1)  $\beta\beta$ -Diphenoxylisopropylphosphorige Säure. Sm. 119—120° (Soc. 79, 1224).
- $C_{15}H_{17}O_7N_3$  C 51,3 — H 4,8 — O 31,9 — N 12,0 — M. G. 351.
- 1) Diäthylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Ketopropan- $\alpha\gamma$ -Dicarbon-säure. Sm. 110° (B. 34, 77).
- $C_{15}H_{17}Cl_2As$  2) Aethylphenyl-4-Methylphenylarsendichlorid. Sm. 148° (A. 321, 158 C. 1902 [2] 43).
- $C_{15}H_{18}ON_2$  24) 3-Aethylamido-4'-Oxy-2-Methyldiphenylamin? Sm. 105° (D.R.P. 133481 C. 1902 [2] 555).
- 25)  $\alpha$ -Oxy- $\alpha$ -[2-Amidophenyl]- $\beta$ -[5-Aethyl-2-Piperidyl]äthan. Sm. 76°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (B. 34, 1898).



- $C_{15}H_{18}O_2N_2$  6) 6,6'-Diamido-4,4'-Dioxy-3,3'-Dimethyldiphenylmethan (C. 1901 [1] 1130).  
 7) 4,4'-Diamido-6,6'-Dioxy-3,3'-Dimethyldiphenylmethan. Sm. 225° (D. R. P. 75 373). — \*II, 605.  
 8) Di[2-Methylphenylhydroxylamido]methan. Sm. 116—116,5° (B. 35, 1882 C. 1902 [2] 33).  
 9) Aethylester d.  $\alpha$ -Cyan- $\beta$ -[2,4,5-Trimethylphenyl]amidoakrylsäure. Sm. 195° (B. 35, 2511 C. 1902 [2] 439).  
 10) Amylester d.  $\alpha$ -Cyan- $\beta$ -Phenylamidoakrylsäure. Sm. 90° (Bl. [3] 25, 45).
- $C_{15}H_{18}O_2N_4$  2) Dimethyläther d.  $\alpha$ -Hydrazido- $\alpha$ -[2-Oxyphenyl]imido- $\alpha$ -[2-Oxyphenyl]amidomethan. Pikrat (B. 35, 1725 C. 1902 [2] 31).
- $C_{15}H_{18}O_3N_2$  3) Base (aus Acetylharmalin). Sm. 164—165° (2HCl, PtCl<sub>4</sub>) (C. 1901 [1] 959).
- $C_{15}H_{18}O_3Cl_2$  1) Dichlordihydrosantonin. Sm. 160° u. Zers. (G. 31 [2] 311).  
 $C_{15}H_{18}O_4N_2$  2) Pernitrososantonin. Sm. 190° (G. 31 [2] 307).  
 3) 2-Naphthylhydrazon d. Arabinose. Sm. 176—177° (B. 35, 1843 C. 1902 [2] 109).
- $C_{15}H_{18}O_5Br_2$  1) 3,6-Diacetat d. 2,5-Dibrom-6-Oxy-3,4-Di[Oxymethyl]-1-Methylbenzol-4-Aethyläther. Sm. 84—85° (B. 32, 3461). — \*II, 697.  
 2) 2-Acetat-5-Isobutyrat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol-2-Oxymethyläther. Sm. 55° (B. 35, 440 C. 1902 [1] 641). C 51,4 — H 5,1 — O 27,4 — N 16,0 — M. G. 350.
- $C_{15}H_{18}O_6N_4$  1) Benzoylamidoacetylamidoacetylamidoessigsäure. Sm. 235° (B. 35, 3227 C. 1902 [2] 1043). C 49,2 — H 4,9 — O 30,6 — N 15,3 — M. G. 366.
- $C_{15}H_{18}O_7N_4$  1) Diäthylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Oximidopropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 160° (B. 34, 89).
- $C_{15}H_{18}NCl$  2) 4-[ $\alpha$ -Chloräthyl]-1,3-Dimethylbenzol + Pyridin + H<sub>2</sub>O. Sm. 153°. 2 + PtCl<sub>4</sub>, + AuCl<sub>3</sub> (B. 35, 2249 C. 1902 [2] 273).
- $C_{15}H_{18}N_2S$  2) 1-[ $\alpha$ -Methyl- $\beta$ -Phenylthioureido]-2,3-Dihydro-R-Hepten.  $\alpha$ -Modif. Sm. 117—118°;  $\beta$ -Modif. Sm. 125° (A. 317, 285).
- $C_{15}H_{19}ON$  11) Benzoylinfracamphenol. Sm. 105° (Soc. 79, 119). — \*II, 729.  
 12) Phenylamid d. 1,3-Dimethyl-2-Tetrahydrobenzol-4-Carbonsäure. Sm. 131—132° (Soc. 79, 354). — \*II, 710.  
 13) 2-Methylphenylamid d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sm. 59,5—60,5° (C. 1901 [1] 1149).  
 14) 4-Methylphenylamid d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sm. 68° (C. 1901 [1] 1149).
- $C_{15}H_{19}O_2N$  \*3) Benzoylpseudotropin. HCl (A. 317, 295).  
 9) Mandragorin. (HCl, AuCl<sub>3</sub>) (J. pr. [2] 64, 283).  
 10) 4-Methoxyphenylamid d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sm. 44° (C. 1901 [1] 1149).
- $C_{15}H_{19}O_3N$  \*9) Phenylmonamid d. cis-1,1-Dimethyl-R-Pentamethylen-2,5-Dicarbonsäure. Sm. 211° (B. 34, 2474; A. 315, 292).  
 11) Chromosantoninoxim. Sm. 214—216° (G. 32 [1] 335 C. 1902 [1] 1406).  
 12) 4-Aethoxyphenylimid d.  $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure (Trimethylpyrantin). Sm. 87—88° (C. 1901 [1] 377; Soc. 81, 799 C. 1902 [2] 108).  
 13) 4-Aethoxyphenylimid d.  $\beta$ -Methylbutan- $\gamma\delta$ -Dicarbonsäure (Isopropylpyrantin). Sm. 98—99° (C. 1901 [1] 377; Soc. 81, 801 C. 1902 [2] 108).
- $C_{15}H_{19}O_4N$  6) Oxim d. Artemisin. Sm. 233—234° (C. 1901 [2] 938).  
 7) Diäthylester d.  $\beta$ -Phenylamidopropen- $\alpha\gamma$ -Dicarbonsäure. Sm. 97 bis 98° (87°) (B. 33, 3442). — \*II, 232.
- $C_{15}H_{19}O_5N$  \*3) Diäthylester d. Benzol-1-Carbonsäure-2-Acetylamidoessigsäure. Sm. 63—64°; Sd. 214—218°<sub>15</sub> (B. 35, 1686 C. 1902 [1] 1362).  
 4) Dimethylester d.  $\beta$ -[4-Acetylamidophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 103° (B. 35, 2075 C. 1902 [2] 206).  
 5)  $\alpha$ -Phenylamid d. Butan- $\alpha\alpha\delta$ -Tricarbonsäure- $\alpha$ -Aethylester. Sm. 148—150° (A. 317, 61).
- $C_{15}H_{19}O_5N_3$  2) Aethylester d. Benzoylamidoacetylamidoacetylamidoessigsäure. Sm. 173° (B. 35, 3227 C. 1902 [2] 1043).

- $C_{15}H_{19}O_6N$  3) 6-Acetat d. 5-Diacetyl-amido-2,4,6-Trioxo-1-Methylbenzol-2,4-Di-methyläther. Sm. 152—155° (*M.* 22, 1007 *C.* 1902 [1] 186).
- $C_{15}H_{20}ON_2$  3) Phenylureidoinfracamphenol. Sm. 180° (*Soc.* 79, 120).
- $C_{15}H_{20}O_3N_2$  2) Aethylester d.  $\beta$ -[ $\beta$ -Phenylpropionyl]hydrazonbuttersäure. Sm. 95° (*J. pr.* [2] 64, 303).
- $C_{15}H_{21}ON$  10) 1-Benzoyl-2-Methyl-5-Aethylhexahydropyridin. Fl. (*B.* 34, 2429).
- 11) isom. 1-Benzoyl-2-Methyl-5-Aethylhexahydropyridin. Fl. (*B.* 34, 2429).
- 12) Verbindung (aus d. Base  $C_8H_{15}N$  u. Benzoylchlorid. Sm. 86° (*A.* 319, 106).
- 13) Verbindung (aus Benzaldehyd u. d. Base  $C_8H_{15}N$ ). Sm. 99—100° (*A.* 319, 105).
- $C_{15}H_{21}O_2N$  11) Benzoat d. 3-Oxy-2,2,5,5-Tetramethyltetrahydropyrrol. Fl. HCl (*A.* 322, 126 *C.* 1902 [2] 127).
- 12) Benzoat d. 4-Oxy-2,2,6-Trimethylhexahydropyridin ( $\beta$ -Eucain). Sm. 91°. HCl (*C.* 1902 [1] 478).
- $C_{15}H_{21}O_2Cl$  2) Laktone d. Chlordihydroisocantalonsäure. Sm. 153° (*B.* 34, 780). — \*II, 939.
- $C_{15}H_{21}O_4N$  6) Oxim d. Isophotosantonsäurelaktone. Sm. 220° u. Zers. (*C.* 32 [1] 315 *C.* 1902 [1] 1405).
- 7) Aethylester d.  $\gamma$ -Phenylamidoformoxypentan- $\gamma$ -Carbonsäure. Sm. 68° (*B.* [3] 27, 871 *C.* 1902 [2] 934).
- 8) 4-Aethoxyphenylmonamid d.  $\beta$ -Methylbutan- $\beta\gamma$ -Dicarbonsäure. Sm. 128—129° (*C.* 1901 [1] 376; *Soc.* 81, 792 *C.* 1902 [2] 108).
- 9) 4-Aethoxyphenylmonamid d.  $\beta$ -Methylbutan- $\gamma\delta$ -Dicarbonsäure. Sm. 151—152° (*C.* 1901 [1] 376; *Soc.* 81, 792 *C.* 1902 [2] 108).
- $C_{15}H_{21}O_4J$  1) Diacetat d. 4-Jodoso-1-Isoamylbenzol. Sm. 78° u. Zers. (*B.* 34, 3682).
- $C_{15}H_{22}ON_2$  6) Phenylamid d. 2-Methyl-5-Aethylhexahydropyridin-1-Carbonsäure. Sm. 97—98° (*B.* 34, 2430).
- 7) Phenylamid d. isom. 2-Methyl-5-Aethylhexahydropyridin-1-Carbonsäure. Sm. 232—233° (*B.* 34, 2429).
- $C_{15}H_{22}O_2N_2$  3) prim. 1-Phenylamidoformyl-4-Oxy-2,2,6-Trimethylhexahydropyridin. Sm. 136°. HCl (*B.* 34, 2977).
- 4) sec. 1-Phenylamidoformyl-4-Oxy-2,2,6-Trimethylhexahydropyridin. Sm. 147°. HCl (*B.* 34, 2978).
- $C_{15}H_{22}O_2Cl_2$  2) Laktone d. Dichlortetrahydroisocantalonsäure. Fl. (*B.* 34, 780). — \*II, 939.
- $C_{15}H_{22}NBr$  1) Bromallylat d. 1-Benzylhexahydropyridin. Zers. bei 161° (*B.* 35, 182 *C.* 1902 [1] 429).
- $C_{15}H_{23}O_2N$  5) Amid d. Isocantalonsäure. Sm. 237—239° (*B.* 34, 779). — \*II, 939.
- $C_{15}H_{23}O_3N$  2) Oxim d. Isophotosantonsäure. Sm. 151° (*G.* 32 [1] 313 *C.* 1902 [1] 1404).
- $C_{15}H_{23}O_6N$  \*1) Triäthylester d.  $\gamma$ -Cyanpentan- $\beta\gamma\delta$ -Tricarbonsäure. Sd. 208—210°<sub>30</sub> (*Soc.* 81, 32 *C.* 1902 [1] 409).
- \*2) Triäthylester d.  $\gamma$ -Cyan- $\beta$ -Methylbutan- $\beta\gamma\delta$ -Tricarbonsäure. Sd. 202—204°<sub>17</sub> (*Soc.* 81, 33 *C.* 1902 [1] 409).
- 3) Triäthylester d.  $\beta$ -Cyanpentan- $\alpha\beta\gamma$ -Tricarbonsäure. Sd. 208°<sub>21</sub> (*Soc.* 79, 1348 *C.* 1902 [1] 51).
- $C_{15}H_{23}O_7N_3$  C 50,4 — H 6,4 — O 31,4 — N 11,8 — M. G. 357.
- 1) Acetat d. trim.  $\beta\gamma$ -Diketobutansemicarbazone. Sm. 206° (*B.* 35, 3297 *C.* 1902 [2] 1247).
- $C_{15}H_{24}ON_2$  10)  $\alpha$ -Oxy- $\alpha$ -[2-Amidophenyl]- $\beta$ -[5-Aethyl-2-Hexahydropyridyl]äthan. Fl. (2HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 34, 1900).
- $C_{15}H_{24}O_2N_2$  6) Zingiberennitrosit. Sm. 97—98° (*C.* 1901 [2] 544, 1007; 1902 [1] 41).
- $C_{15}H_{24}O_4N_2$  5) Zingiberennitrosat. Sm. 86—88° (*C.* 1901 [2] 1007; 1902 [1] 41).
- $C_{15}H_{24}O_{19}N_{12}$  C 26,6 — H 3,6 — O 45,0 — N 24,8 — M. G. 676.
- 1) Verbindung (aus Guanidin u. Glyoxylsäure). Sm. 207° (*B.* 35, 3605 *C.* 1902 [2] 1412).
- $C_{15}H_{25}O_2N$  3) Amid d. Dihydroisocantalonsäure. Sm. 176° (*B.* 34, 780). — \*II, 940.
- $C_{15}H_{25}O_4P$  1) Diäthylester d. Phosphinsäure  $C_{11}H_{17}O_4P$ . Sd. 195—205°<sub>30</sub> (*B.* 34, 1299).
- $C_{15}H_{26}N_2S$  \*1)  $\alpha$ -sec. Oktylamido- $\beta$ -Phenylthioharnstoff. Sm. 116° (*J. pr.* [2] 64, 119).

- $C_{15}H_{26}O_2N_6$  C 55,9 — H 8,1 — O 9,9 — N 26,1 — M. G. 322.  
 1) Disemicarbazon d. Acetonylisocampher. Sm. 215° (B. 34, 3060).  
 $C_{15}H_{26}O_{10}N_2$  \* 1) Chitin (M. 23, 123 C. 1902 [1] 1092).  
 $C_{15}H_{27}O_2Cl$  1) Calameonhydrochlorid. Sm. 119° (B. 35, 3199 C. 1902 [2] 1256).  
 $C_{15}H_{27}O_3N_3$  2) Menthylexer d.  $\beta$ -Semicarbazidocrotonsäure. Sm. 143—144° (C. 1902 [2] 208).  
 $C_{15}H_{27}O_6N_3$  C 52,2 — H 7,8 — O 27,8 — N 12,2 — M. G. 345.  
 1) Carboxäthylglycylglycylleucinester. Sm. 109,5° (B. 35, 1100 C. 1902 [1] 910).  
 $C_{15}H_{28}N_2S$  1)  $\alpha$ -Methyl- $\alpha$ -Hexyl- $\beta$ -[3-Methylhexahydrophenyl]thioharnstoff. Sm. 119° (B. 35, 831 C. 1902 [1] 713).  
 $C_{15}H_{30}OS_2$  1) Diamyläther d.  $\beta\beta$ -Dimerkapto- $\gamma$ -Ketopentan. Fl. (B. 35, 500 C. 1902 [1] 637).  
 $C_{15}H_{30}O_3S_2$  1)  $\gamma\gamma$ -Dimerkaptovalerandiisoomyläthersäure. Fl. Ba (B. 34, 2655).  
 $C_{15}H_{30}O_5S_2$  1)  $\delta\delta$ -Diamylsulfon- $\beta$ -Ketopentan. Fl. (B. 35, 501 C. 1902 [1] 637).  
 2)  $\beta\beta$ -Diamylsulfon- $\gamma$ -Ketopentan. Fl. (B. 35, 500 C. 1902 [1] 637).  
 $C_{15}H_{30}O_6S_2$  1)  $\gamma\gamma$ -Di[Isoamylsulfon]valeriansäure. Sm. 98—100°. Ba (B. 34, 2651).  
 $C_{15}H_{30}N_2Br_2$  1) R-Aethylentrimethylendi[Piperidylumbromid]. Sm. noch nicht bei 300° (B. 35, 3052 C. 1902 [2] 1127).  
 $C_{15}H_{30}N_2J_4$  1) Di[Diodmethylat] d.  $\alpha\beta$ -Di[1-Piperidyl]propan. Sm. 195—196° (B. 35, 3052 C. 1902 [2] 1127).  
 $C_{15}H_{31}ON$  3) Diisoomylamid d. Isovaleriansäure. Sd. 270—275° (D.R.P. 129967 C. 1902 [1] 959).  
 $C_{15}H_{32}O_4S_2$  3)  $\beta\beta$ -Diäthylsulfonundekan. Sm. 67—68° (C. 1901 [1] 525).

## — 15 IV —

- $C_{15}H_9ONBr_2$  1) Nitril d.  $\beta$ -Brom- $\alpha$ -Phenyl- $\beta$ -[3-Oxyphenyl]akrylsäure. Sm. 182° (B. 34, 3086).  
 $C_{15}H_9O_2N_2Cl$  7) Nitril d.  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[4-Chlorphenyl]akrylsäure. Sm. 180° (J. pr. [2] 65, 282 C. 1902 [1] 1216).  
 8) Nitril d.  $\alpha$ -Benzoximido- $\alpha$ -[2-Chlorphenyl]essigsäure. Sm. 105° (J. pr. [2] 66, 379 C. 1902 [2] 1503).  
 9) Nitril d.  $\alpha$ -Benzoximido- $\alpha$ -[4-Chlorphenyl]essigsäure. Sm. 115 bis 116° (J. pr. [2] 66, 374 C. 1902 [2] 1502).  
 $C_{15}H_9O_2N_2Cl_3$  1)  $\beta$ -Trichlor-1,5-Diamido-2-Methyl-9,10-Anthrachinon. Sm. noch nicht bei 300° (D.R.P. 131402 C. 1902 [2] 614).  
 $C_{15}H_9O_2N_2Br_3$  1)  $\beta$ -Tribrom-1,5-Diamido-2-Methyl-9,10-Anthrachinon. Sm. noch nicht bei 300° (D.R.P. 131402 C. 1902 [2] 614).  
 $C_{15}H_9O_{13}N_7S$  1) O-Aethyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 138° (Soc. 81, 436 C. 1902 [1] 861, 989).  
 $C_{15}H_{10}ONJ$  1) 1-Jod-6- oder 7-Oxy-3-Phenylisochinolin. Sm. 141—143° (B. 34, 3745 C. 1902 [1] 40).  
 $C_{15}H_{10}O_2NCl$  1)  $\beta$ -Chlor- $\beta$ -Amido-2-Methyl-9,10-Anthrachinon. Sm. 255—256° (D.R.P. 131402 C. 1902 [2] 614).  
 $C_{15}H_{10}O_2NBr$  1)  $\beta$ -Brom- $\beta$ -Amido-2-Methyl-9,10-Anthrachinon. Sm. 215—216° (D.R.P. 131402 C. 1902 [2] 614).  
 $C_{15}H_{10}O_2N_2Cl_4$  1) Acetat d. 2,4,5,6-Tetrachlor-3-Oxy-1-Phenylhydrazonmethylbenzol. Sm. 188—189° (B. 34, 4124 C. 1902 [1] 190).  
 $C_{15}H_{11}ONS$  1)  $\beta$ -Rhodan- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan (Desylthiocyanat). Sm. 110 bis 111° (Am. 26, 202).  
 $C_{15}H_{11}ON_3S$  2) 2-Benzoylimido-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 119—120° (Am. 27, 269 C. 1902 [1] 1299).  
 $C_{15}H_{11}O_2NS$  1) 2,4-Diketo-5,5-Diphenyltetrahydrothiazol. Sm. 144—145° (C. 1902 [2] 578).  
 $C_{15}H_{11}O_3NBr_2$  1)  $\beta\gamma$ -Dibrom- $\gamma$ -[2-Nitrophenyl]- $\alpha$ -Phenylpropan. Sm. 167—168° (B. 35, 1067 C. 1902 [1] 929).  
 2)  $\beta\gamma$ -Dibrom- $\gamma$ -[3-Nitrophenyl]- $\alpha$ -Phenylpropan. Sm. 187° (B. 35, 1068 C. 1902 [1] 929).  
 3)  $\beta\gamma$ -Dibrom- $\alpha$ -Keto- $\gamma$ -[4-Nitrophenyl]- $\alpha$ -Phenylpropan. Sm. 148° (B. 35, 1069 C. 1902 [1] 929).  
 $C_{15}H_{12}ONCl$  1)  $\gamma$ -Oximido- $\gamma$ -Phenyl- $\alpha$ -[4-Chlorphenyl]propen. Sm. 153° (J. pr. [2] 65, 281 C. 1902 [1] 1216).

- $C_{15}H_{12}ON_2Cl_4$  1) Äthyläther d. 2,4,5,6-Tetrachlor-3-Oxy-1-Phenylhydrazon-methylbenzol. Sm. 111—112° (*B.* 34, 4125 *C.* 1902 [1] 190).
- $C_{15}H_{12}ON_2S$  9) 2-Imido-4-Keto-3,5-Diphenyltetrahydrothiazol. Sm. 185—186° (*Am.* 26, 353).
- $C_{15}H_{12}O_2NCl$  4) Chlorid d. 3-[3,4-Dimethylbenzoyl]pyridin-2-Carbonsäure. Fl. (*M.* 22, 117).
- $C_{15}H_{12}O_2N_2Br_2$  2) Acetat d. 2-Dibrom-4'-Oxy-2-Methylazobenzol. Sm. 153° (*Soc.* 79, 1091).
- 3) Acetat d. 2-Dibrom-4'-Oxy-3-Methylazobenzol. Sm. 118° (*Soc.* 79, 1092).
- 4) Acetat d. 2-Dibrom-4'-Oxy-4-Methylazobenzol. Sm. 148° (*Soc.* 79, 1093).
- $C_{15}H_{12}O_2N_3Cl$  4) Benzoat d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]azoäthan. Sm. 167 bis 167,5° (*B.* 35, 76 *C.* 1902 [1] 403).
- $C_{15}H_{12}O_2NBr$  1) Methyläther d. 10-Brom-10-Nitro-9-Oxy-9,10-Dihydroanthracen. Sm. 93° u. Zers. (*A.* 323, 238 *C.* 1902 [2] 803).
- $C_{15}H_{12}O_3N_2S_2$  1) 4-Nitrobenzylester d. Benzoylamidodithioameisensäure. Sm. 155—156° (*Am.* 26, 196).
- $C_{15}H_{12}O_4NCl$  1) 2,6-Dimethyl-4-[4-Chlorphenyl]pyridin-3,5-Dicarbonsäure. Sm. 274° (*J. pr.* [2] 65, 289 *C.* 1902 [1] 1216).
- 2) Salicylat d. 4-Chloracetyl-amido-1-Oxybenzol. Sm. 158° (*D.R.P.* 84654). — **II**, 888.
- $C_{15}H_{12}O_4N_3Br$  1) Farbstoff (aus Dibromgallamid) (*J. pr.* [2] 63, 93).
- 2) Phenylamidoformiat d. syn- $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 145—146° (*B.* 34, 1910).
- $C_{15}H_{12}O_5NBr_3$  1) 2- oder 3-Brom-4-Aethoxyphenylamid d. 2,6-Dibrom-3,4,5-Trioxymethyl-1-Carbonsäure + 2H<sub>2</sub>O. Sm. 209—210° (218—219° wasserfrei) (*J. pr.* [2] 63, 85).
- $C_{15}H_{13}ONBr_4$  1) 3,5,6-Tribrom-2-Oxy-4-Brommethyl-1-[2-Methylphenylamido]-methylbenzol. Erweichen bei 120—125° (*B.* 35, 149 *C.* 1902 [1] 468).
- $C_{15}H_{13}ONS$  5) Benzoylamid d. 1-Methylbenzol-4-Thiocarbonsäure. Sm. 135 bis 136° (*Am.* 26, 360).
- $C_{15}H_{13}ONS_2$  1) Benzylester d. Benzoylamidodithioameisensäure. Sm. 108° (*C.* 1901 [2] 276).
- $C_{15}H_{13}ON_3S$  \*1) Verbindung (aus d. Methyläther d. Phenylimido- $\alpha$ -Phenylhydrazidomerkaptoethan). Sm. 178° (*B.* 34, 340; *B.* 35, 973 *C.* 1902 [1] 880).
- 3) Methyläther d. 3-Merkapto-5-Keto-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 103° (*B.* 34, 309, 342).
- $C_{15}H_{13}O_2NBr_2$  2) 3,6-Dibrom-5-Phenylamido-2-Isopropyl-1,4-Benzochinon. Sm. 170° (*B.* 34, 1559).
- $C_{15}H_{13}O_2N_2Cl$  4) Phenylamidoformiat d. syn- $\beta$ -Chlor- $\alpha$ -Oximido- $\alpha$ -Phenyläthan. Sm. 118—120° (*B.* 34, 1904).
- $C_{15}H_{13}O_2N_2Br$  2) 2-Brom-4-[4-Nitrobenzyliden]amido-1,3-Dimethylbenzol. Sm. 182—183° (*B.* 34, 2255).
- 3) 5-Brom-4-[4-Nitrobenzyliden]amido-1,3-Dimethylbenzol. Sm. 182—183° (*B.* 34, 2256).
- 4) 6-Brom-4-[4-Nitrobenzyliden]amido-1,3-Dimethylbenzol. Sm. 139° (*B.* 34, 2253).
- 5) Acetat d. 5-Brom-6-Oxy-3-Methylazobenzol. Sm. 83° (*Soc.* 79, 164).
- 6) Acetat d. 2'-Brom-6-Oxy-3-Methylazobenzol. Sm. 85° (*Soc.* 79, 165).
- 7) Acetat d. 3'-Brom-6-Oxy-3-Methylazobenzol. Sm. 61—62° (*Soc.* 79, 166).
- 8) Acetat d. 4'-Brom-6-Oxy-3-Methylazobenzol. Sm. 123° (*Soc.* 79, 166).
- 9) Phenylamidoformiat d. syn- $\beta$ -Brom- $\alpha$ -Oximido- $\alpha$ -Phenyläthan. Sm. 120—121° (*B.* 34, 1908).
- $C_{15}H_{13}O_2N_4Cl$  1) Phenylamidoformiat d.  $\alpha$ -Oximido- $\alpha$ -[4-Chlorphenyl]azoäthan. Sm. 129—130° (*B.* 35, 76 *C.* 1902 [1] 403).
- $C_{15}H_{13}O_3N_3S$  1) Methyläther d. Benzoylimido-3-Nitrophenylamidomerkaptoethan (Benzoyl-3-Nitrophenylthiolumethylpseudothioharnstoff). Sm. 71—72° (*Am.* 26, 412).

- $C_{15}H_{13}O_4BrS_2$  1) 1,3- $\alpha$ -Brombenzylidendi[Sulfonmethyl]benzol. Sm. 268° u. Zers. (B. 34, 1777).
- $C_{15}H_{13}O_6NS$  2) Phenylsulfonphenylamidoessigsäure-2-Carbonsäure. Sm. 190° u. Zers. (B. 35, 1685 C. 1902 [1] 1362).
- $C_{15}H_{13}O_6N_3S$  1) 4-Acetylamido-1-[4-Nitrobenzyliden]amidobenzol-1<sup>2</sup>-Sulfonsäure (D. R. P. 135335 C. 1902 [2] 1167).
- $C_{15}H_{13}O_6N_3S_2$  1) 5-Aethylxanthogenat d. 2,4-Dinitro-2'-Oxydiphenylamin. Sm. 155—156° (C. 1901 [2] 383).
- 2) 5-Aethylxanthogenat d. 2,4-Dinitro-4'-Oxydiphenylamin. Sm. 125—130° (C. 1901 [2] 383).
- $C_{15}H_{13}O_6NBr_2$  1) Acetylamid d. 2,6-Dibrom-3,4,5-Triacetoxybenzol-1-Carbonsäure. Sm. 233° (J. pr. [2] 63, 88).
- $C_{15}H_{14}ON_2Br_2$  1) Äthyläther d.  $\beta$ -Dibrom-4'-Oxy-2-Methylazobenzol. Sm. 95° (Soc. 79, 1091).
- 2) Äthyläther d.  $\beta$ -Dibrom-4'-Oxy-3-Methylazobenzol. Sm. 88° (Soc. 79, 1092).
- 3) Äthyläther d.  $\beta$ -Dibrom-4'-Oxy-4-Methylazobenzol. Sm. 95° (Soc. 79, 1093).
- $C_{15}H_{14}ON_2S$  \*2)  $\alpha$ -[2-Methylphenyl]- $\beta$ -Benzoylthioharnstoff. Sm. 116—117° (C. 1900 [2] 531; 1901 [2] 198).
- 10) Methyläther d. Benzoylimidophenylamidomerkaptomethan (Benzoylpseudomethylphenylthioharnstoff). Sm. 104—105° (C. 1901 [2] 275).
- 10) Methyläther d. Benzoylphenylamidoimidomerkaptomethan (uns-Benzoylphenylpseudomethylthioharnstoff). Sm. 86° (Am. 27, 278 C. 1902 [1] 1300).
- $C_{15}H_{14}ON_3Cl$  1) 4-Propionylechloramidoozobenzol. Sm. 57° (Soc. 81, 983 C. 1902 [2] 360).
- $C_{15}H_{14}ON_4S$  1) 4-Phenylamido-5-Thiocarbonyl-3-Oxy-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 219° (B. 34, 2331).
- 2) 4-[4-Methylphenyl]amido-5-Thiocarbonyl-3-Oxy-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 190° (B. 34, 2330).
- $C_{15}H_{14}O_2NCl$  1) 3-Methylphenylamido-4-Chlorphenylessigsäure. Sm. 180° u. Zers. (J. pr. [2] 65, 274 C. 1902 [1] 1215).
- 2) 4-Methylphenylamido-4-Chlorphenylessigsäure. Sm. 186° u. Zers. (J. pr. [2] 65, 273 C. 1902 [1] 1214).
- $C_{15}H_{14}O_2N_2S$  6) Verbindung (aus d. Verb.  $C_{15}H_{13}ON_2BrS$ ). Sm. 162° (B. 34, 3138).
- $C_{15}H_{14}O_2N_3Cl$  1) 2-Chlor-4-Nitro-1-[4-Dimethylamidophenyl]imidomethylbenzol (C. 1901 [2] 70).
- $C_{15}H_{14}O_3NCl$  1) 1-Äthyläther d. 5-Chlor-6-Oximido-1,3-Dioxy-1,6-Dihydropentanthren. Sm. 149° (B. 34, 1536).
- $C_{15}H_{14}O_3NBr$  1) 1-Äthyläther d. 5-Brom-6-Oximido-1,3-Dioxy-1,6-Dihydropentanthren (B. 34, 1546).
- $C_{15}H_{14}O_3N_2Hg$  1) Acetat d.  $\beta$ -Oxy- $\beta$ -Methylazobenzolquecksilberhydroxyd. Sm. 269° u. Zers. (B. 35, 2864 C. 1902 [2] 1039).
- $C_{15}H_{14}O_3NBr$  1) Acetylamid d. 2-Brom-3,4,5-Triacetoxybenzol-1-Carbonsäure. Sm. 240° (J. pr. [2] 63, 87).
- $C_{15}H_{14}O_3N_3P$  1)  $\beta$ -Trinitrophenyl-2,4,5-Trimethylphenylphosphinsäure. Sm. 197 bis 198° (A. 315, 74).
- $C_{15}H_{14}N_2Br_2S$  1) s-Di[2-Brom-4-Methylphenyl]thioharnstoff. Sm. 170° u. Zers. (J. pr. [2] 64, 267).
- $C_{15}H_{16}ONBr_2$  3) 3,6-Dibrom-5-Oxy-1-Phenylamidomethyl-2,4-Dimethylbenzol. Sm. 148—149° (B. 35, 135 C. 1902 [2] 466).
- $C_{15}H_{15}ONS$  18)  $\alpha$ -Acetylphenylamido- $\alpha$ -Merkapto- $\alpha$ -Phenylmethan. Sm. 75° (B. 34, 659).
- $C_{15}H_{15}ON_2Cl$  2) Amid d. 2-Methylphenylamido-4-Chlorphenylessigsäure. Sm. 127° (J. pr. [2] 65, 275 C. 1902 [1] 1215).
- 3) Amid d. 3-Methylphenylamido-4-Chlorphenylessigsäure. Sm. 137—138° (J. pr. [2] 65, 274 C. 1902 [1] 1215).
- 4) Amid d. 4-Methylphenylamido-4-Chlorphenylessigsäure. Sm. 132° (J. pr. [2] 65, 273 C. 1902 [1] 1214).
- $C_{15}H_{16}ON_3S_2$  1) Methyl ester d.  $\beta$ -Phenylamidoformyl- $\beta$ -Phenylhydrazidodithioameisensäure. Sm. 186° (B. 34, 319).



- $C_{15}H_{15}OCl_2P$  1) Dichlorid d.  $\beta\beta'$ -Diphenylisopropylphosphinsäure. Sd.  $228^\circ_{20}$  (B. 34, 1294).
- $C_{15}H_{15}O_2NS$  4) Phenylbenzylamid d. Aethensulfonsäure. Sm.  $87^\circ$  (B. 34, 3477).
- $C_{17}H_{15}O_2N_3S_2$  2) Methyläther-4-Nitrobenzyläther d. Phenylhydrazondimerekapto-  
methan. Sm.  $84^\circ$  (B. 34, 1124).
- $C_{15}H_{15}O_4NS$  3) isom. Methyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkapto-  
methan. Sm.  $89-90^\circ$  (B. 34, 1124).
- 2) act.-1-[2-Naphtylsulfon]tetrahydropyrrrol-2-Carbonsäure. Sm.  $133,7^\circ$  (B. 35, 3783 C. 1902 [2] 1470).
- 3) 4-Acetylamidophenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm.  $145,5-146^\circ$  (B. 34, 237).
- $C_{15}H_{15}O_5NS$  3) 1-[2-Naphtylsulfon]- $\beta$ -Oxytetrahydropyrrrol-2-Carbonsäure +  $H_2O$ . Sm.  $91-92^\circ$  (B. 35, 3785 C. 1902 [2] 1470).
- $C_{15}H_{15}O_5N_3S$  1) Azobenzol-4-Methylamidoessigsäure-3'-Sulfonsäure.  $Na_2$ , Ba (B. 35, 578 C. 1902 [1] 580).
- 2) Azobenzol-4-Methylamidoessigsäure-4'-Sulfonsäure. HCl,  $Na_2$ , Ba (B. 35, 577 C. 1902 [1] 580).
- $C_{15}H_{15}O_5NS_2$  1) Acetyl-3'-Oxy-4-Methyldiphenylamin- $\beta$ -Disulfonsäure. Ba +  $H_2O$  (J. pr. [2] 65, 55 C. 1902 [1] 578).
- $C_{15}H_{15}O_{11}NS_3$  1) Acetyl-3'-Oxy-4-Methyldiphenylamin- $\beta$ -Trisulfonsäure.  $Ba_3$  (J. pr. [2] 65, 56 C. 1902 [1] 578).
- $C_{15}H_{16}ON_3Cl$  1) 3-Dimethylamido-9-Amido-4-Methylphenoxazoniumchlorid +  $H_2O$  (C. 1902 [2] 458).
- $C_{15}H_{16}OCl_1P$  1) Chlorid d. Phenyl-2,4,5-Trimethylphenylphosphinsäure. Sd.  $210-215^\circ_{10}$  (A. 315, 73).
- $C_{15}H_{16}O_3N_2S$  2) 1-[4-Dimethylamidobenzyliden]amidobenzol-4-Sulfonsäure (C. r. 134, 551 C. 1902 [1] 874).
- $C_{15}H_{16}O_4NBr$  1) Oxim d. Verb.  $C_{15}H_{15}O_4Br$ . Zers. bei  $140^\circ$  (C. 1901 [1] 115).
- $C_{15}H_{17}O_3NS$  3) 4-Methylphenylamid d. 1,3-Dimethylbenzol-5-Sulfonsäure. Sm.  $121-123^\circ$  (C. 1901 [1] 385).
- 4) Phenylbenzylamid d. Aethansulfonsäure. Sm.  $100^\circ$  (B. 34, 3481).
- 4) 1-Aethylbenzylamidobenzol-3-Sulfonsäure. Na, Ba +  $3H_2O$  (J. pr. [2] 63, 421).
- $C_{15}H_{17}O_3NS$  5)  $\beta$ -Phenoxyäthylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm.  $104^\circ$  (C. 1901 [1] 1074).
- 6) 4-Aethoxyphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm.  $106-107^\circ$  (B. 34, 3002).
- $C_{15}H_{17}O_4NS$  1) Aethylester d. d- $\alpha$ -[2-Naphtylsulfon]amidopropionsäure +  $xH_2O$ . Sm.  $78^\circ$  (90,5% wasserfrei) (B. 35, 3782 C. 1902 [2] 1469).
- $C_{15}H_{17}O_5NS_2$  1) Malonsäurediäthylesterderivat d. Benzoylamidodithioameisensäure. Sm.  $119^\circ$  (Am. 26, 351).
- $C_{15}H_{17}O_5NS_2$  1) Aethylphenylbenzylamin- $\beta$ -Disulfonsäure (D.R.P. 69777). — \*II, 326.
- $C_{15}H_{18}O_4N_2S_2$  1) Di[Phenylamid] d. Propan- $\alpha\gamma$ -Dicarbonsäure. Sm.  $130^\circ$ .  $Ag_2$  (B. 34, 3479).
- $C_{15}H_{19}ON_3J$  1) Jodmethylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm.  $218^\circ$  (B. 35, 3086 C. 1902 [2] 1116).
- $C_{15}H_{19}O_2N_2P$  1) Phenylamid-4-Methylphenylamid d. Phosphorsäuremonoäthylester. Sm.  $116-117^\circ$  (C. 1901 [1] 687; Soc. 81, 1372 C. 1902 [2] 1198).
- $C_{15}H_{19}O_3NSi$  1) Methyläthylphenyläther d. Trioxysiliciumphenylamid. Fl. (Soc. 79, 458).
- $C_{15}H_{20}O_2N_2S_2$  1) 4-Nitrobenzylester d. 3-Methylhexahydrophenylamidodithioameisensäure. Sm.  $90-93^\circ$  (B. 35, 3384 C. 1902 [2] 1363).
- $C_{15}H_{20}O_6N_6S_2$  1)  $\alpha\alpha$ -Di[Phenylhydrazido]propan- $\alpha\alpha$ -Disulfonsäure. Ba (Bl. [3] 27, 11).
- $C_{15}H_{21}O_4N_2J$  1) Jodmethylat d. Base  $C_{14}H_{19}O_4N_2$ . Sm.  $195^\circ$  (B. 35, 1748 C. 1902 [2] 68).
- $C_{15}H_{22}O_2N_3Br$  1) Brombenzylat d. 1-Piperidylessigsäuremethylester. Zers. 193 bis  $194^\circ$  (B. 35, 182 C. 1902 [1] 429).
- $C_{15}H_{22}O_2NJ$  1) Jodäthylat d. 1,2,3,4-Tetrahydro-1-Chinolylessigsäureäthylester. Zers.  $128-130^\circ$  (B. 35, 1077 C. 1902 [1] 938).
- 2) Jodäthylat d. 1,2,3,4-Tetrahydro-2-Isochinolylessigsäureäthylester. Zers. bei  $109-110^\circ$  (B. 34, 3989 C. 1902 [1] 210; B. 35, 1077 C. 1902 [1] 938).

- $C_{15}H_{24}ONCl$  6) Zingiberennitrosylchlorid. Sm. 97° (C. 1901 [2] 1007; 1902 [1] 41).
- $C_{15}H_{26}O_2NS$  2) Aethyl- $\alpha$ -Aethylisoamylamid d. Benzolsulfonsäure. Fl. (J. pr. [2] 63, 214). — \*II, 70.
- $C_{15}H_{26}O_3NS$  1) Piperidid d. Campher- $\beta$ -Sulfonsäure. Sm. 140° (C. 1901 [2] 417; Soc. 81, 1449 C. 1902 [2] 1465).
- 2) isom. Piperidid d. Campher- $\beta$ -Sulfonsäure. Sm. 55° (56°) (C. 1901 [2] 417; Soc. 81, 1450 C. 1902 [2] 1465).
- $C_{15}H_{32}O_2NCl$  1) Chlormethylat d.  $\zeta$ -Dimethylamido- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäureäthylester. 2 + PtCl<sub>4</sub> (A. 323, 327 C. 1902 [2] 1111).
- $C_{15}H_{32}O_2NJ$  1) Jodmethylat d.  $\zeta$ -Dimethylamido- $\beta$ -Methylheptan- $\gamma$ -Methylcarbonsäureäthylester (A. 323, 327 C. 1902 [2] 1111).
- 2) Jodmethylat d.  $\epsilon$ -Dimethylamido- $\beta$ - $\zeta$ -Dimethylheptan- $\alpha$ -Carbon-säureäthylester. Sm. 117° (C. 1902 [1] 1295).

## — 15 V —

- $C_{15}H_{12}ONBrS_2$  1) 4-Brombenzylester d. Benzoylamidodithioameisensäure. Sm. 126° (Am. 26, 197).
- $C_{15}H_{12}O_3NCIS_3$  1) Chlorid (aus Trithiodibutolakton). Sm. 210° (B. 34, 3404).
- $C_{15}H_{12}O_3NBrS_3$  1) Bromid (aus Trithiodibutolakton). Sm. 242° u. Zers. (B. 34, 3404).
- $C_{15}H_{13}ON_2Br_3S$  1) Verbindung (aus Acetyldiphenylthioharnstoff). Sm. 167° u. Zers. (B. 34, 3138).
- $C_{15}H_{13}O_3N_2BrS$  1) Verbindung (aus d. Verb.  $C_{15}H_{13}ON_2Br_3S$ ). Sm. 165° (B. 34, 3142).
- $C_{15}H_{16}O_4N_3ClS$  1) 3-Dimethylamido-4-Methylphenylamid d. 6-Chlor-3-Nitrobenzol-1-Sulfonsäure. Sm. 144° (D.R.P. 135016 C. 1902 [2] 1166).
- $C_{15}H_{22}O_3NJS$  1) Jodmethylat d. Merkaptohydrocotarninäthyläther + H<sub>2</sub>O. Sm. 100° (wasserfrei) (B. 35, 1752 C. 1902 [2] 68).
- $C_{15}H_{24}O_3NBrS$  2) Piperidid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. Sm. 123° (C. 1901 [2] 418; Soc. 81, 1452 C. 1902 [2] 1465).

**C<sub>16</sub>-Gruppe.**

- $C_{16}H_{14}$  18) Kohlenwasserstoff (aus Acetophenon u. Malonsäurediäthylester). Sm. 131 bis 132° (B. 34, 1959).
- $C_{16}H_{16}$  14)  $\alpha\alpha$ -Diphenyl- $\alpha$ -Buten. Sd. 291—292° (C. r. 135, 534 C. 1902 [2] 1209).
- $C_{16}H_{18}$  \*1)  $\alpha\delta$ -Diphenylbutan. Sm. 52°; Sd. 317° (C. r. 135, 89 C. 1902 [2] 504).
- \*3)  $\beta\gamma$ -Diphenylbutan. Sm. 126° (B. 35, 2639 C. 1902 [2] 585).
- 23)  $\alpha\alpha$ -Diphenylbutan. Sd. 150° (C. r. 135, 534 C. 1902 [2] 1209).
- 24)  $\alpha\beta$ -Diphenyl- $\beta$ -Methylpropan. Sd. 284—287°<sub>750</sub> (Bl. [3] 25, 627).
- $C_{16}H_{22}$  2) Phenylidihydropinen. Sd. 286—291°<sub>745</sub> (C. 1902 [1] 1296).
- $C_{16}H_{24}$  2) Menthylbenzol. Sd. 283—288° (J. r. 27, 455). — \*II, 89.
- $C_{16}H_{28}$  4) Dioktonaphtylen. Sd. 262—264° (J. r. 27, 304). — \*II, 9.
- $C_{16}H_{34}$  \*1) Hexadekan. Sm. 20°; Sd. 270° (274—275°<sub>780</sub>) (G. 31 [1] 346; Am. 28, 174 C. 1902 [2] 1081).
- 5) Kohlenwasserstoff (aus Pinsangwachs). Sd. bei 280° (R. 20, 74).

## — 16 II —

- $C_{16}H_2Br_3$  1) Verbindung. Sm. 134° (B. 34, 1907 Anm.).
- $C_{16}H_{10}O$  \*1)  $\alpha$ -Phenylen- $\alpha$ -Naphtylenoxyd. Sm. 178—179° (M. 22, 573).
- $C_{16}H_{10}O_3$  \*7) Anhydrid d. Diphenylmaleinsäure. Sm. 155° (B. 35, 1761 C. 1902 [2] 19).
- $C_{16}H_{10}O_4$  \*5) Acetat d. 1-Oxy-9,10-Anthrachinon. Sm. 172° (B. 35, 2926 C. 1902 [2] 1050).
- 16) Acetat d. 2-Oxy-9,10-Phenanthrenchinon. Sm. 222° (215—216°) (B. 34, 4006 C. 1902 [1] 203; A. 322, 161 C. 1902 [2] 282).
- 17) Acetat d. 3-Oxy-9,10-Phenanthrenchinon. Sm. 199—201° (206°) (A. 322, 140; B. 34, 4007 C. 1902 [1] 203).
- 18) Verbindung (aus Dehydrobrasilon- $\alpha$ -Trimethyläther). Sm. 350° (B. 35, 1675 C. 1902 [1] 1355).
- $C_{16}H_{10}O_6$  4) Verbindung + H<sub>2</sub>O (aus Dehydrobrasilon- $\alpha$ -Trimethyläther). Zers. bei 315° (B. 35, 1674 C. 1902 [1] 1355).

- $C_{16}H_{10}O_8$  3) 1,2-Peroxydiphtalsäure. Sm. 156° u. Zers. (B. 34, 764).  
 $C_{16}H_{10}N_2$  \*5) Nitril d. Diphenylmaleinsäure. Sm. 158—159° (B. 35, 1758 C. 1902 [2] 19).  
 7)  $\beta\beta$ -Naphthophenazin. Sm. 233° (A. 319, 261 C. 1902 [1] 359).  
 $C_{16}H_{11}N$  \*3) Phenyl- $\alpha$ -Naphthylcarbazol. Sm. 225,5° (C. 1901 [2] 428).  
 \*5) isom. Phenyl- $\beta$ -Naphthylcarbazol. Sm. 134—135° (C. 1901 [2] 427).  
 7) Chinolylphenylenmethan. Sm. 166—167° (B. 34, 2471).  
 8) Fluorencinolin. Sm. 134,5°; Sd. 390—400° (B. 35, 3276 C. 1902 [2] 1260).  
 9) Base (aus Morphin) (B. 34, 1163).  
 $C_{16}H_{11}N_3$  \*8) 2-[8-Chinolyl]benzimidazol. 2HCl (B. 34, 2971).  
 10) 2-[5- oder 7-Chinolyl]benzimidazol + H<sub>2</sub>O. Sm. 135—136° (wasserfrei). 2HCl, 2HNO<sub>3</sub> (B. 34, 2972).  
 11) 2-[6-Chinolyl]benzimidazol + H<sub>2</sub>O. Sm. 218° (wasserfrei). 2HCl, 2HNO<sub>3</sub> (B. 34, 2973).  
 $C_{16}H_{12}O$  8) 1-[4-Oxyphenyl]naphthalin. Sm. 57°; Sd. 345°. + CH<sub>4</sub>O (M. 23, 825 C. 1902 [2] 1470).  
 9) 2-[4-Oxyphenyl]naphthalin. Sm. 166—167° (M. 23, 827 C. 1902 [2] 1470).  
 10) Phenyläther d. 1-Oxynaphtalin. Sm. 55° (50°); Sd. 340° (D.R.P. 58001; M. 23, 824 C. 1902 [2] 1470).  
 11) Phenyläther d. 2-Oxynaphtalin. Sm. 93° (M. 23, 827 C. 1902 [2] 1470).  
 $C_{16}H_{12}O_2$  \*24) stab. Laktone d.  $\gamma$ -Oxy- $\beta\gamma$ -Diphenylpropen- $\alpha$ -Carbonsäure. Sm. 150° (A. 319, 164 C. 1902 [1] 104).  
 \*29) Acetat d. 9-Oxyphenanthren. Sm. 77° (A. 321, 301 C. 1902 [2] 59).  
 \*31) cis-Dibenzoyläthylen. Sm. 134° (B. 35, 168 C. 1902 [1] 421).  
 \*32) trans-Dibenzoyläthylen. Sm. 111° (B. 35, 168 C. 1902 [1] 422).  
 \*36) lab. Laktone d.  $\alpha$ -Oxy- $\alpha\beta$ -Diphenylpropen- $\gamma$ -Carbonsäure (A. 319, 164 C. 1902 [1] 103).  
 \*38) Acetat d. 3-Oxyphenanthren. Sm. 114—115° (115—116°) (B. 34, 4006 C. 1902 [1] 203; A. 321, 291 C. 1902 [2] 58).  
 40) bim. Cumaron. Sm. 99° (C. 1902 [1] 355).  
 41) 1-Keto-2-[2-Oxybenzyliden]-2,3-Dihydroinden. Sm. 206° u. Zers. (B. 34, 413).  
 42) 1-Keto-2-[3-Oxybenzyliden]-2,3-Dihydroinden. Sm. 198—199° (B. 34, 413).  
 43) 1-Keto-2-[4-Oxybenzyliden]-2,3-Dihydroinden. Sm. 219—220° (B. 34, 413).  
 44) 7-Oxy-4-Methylen-2-Phenyl-1,4-Benzpyran. HCl + H<sub>2</sub>O, Pikrat (B. 34, 1786).  
 45) Acetat d. 2-Oxyphenanthren. Sm. 141° (142—143°) (B. 34, 4005 C. 1902 [1] 202; A. 321, 308 C. 1902 [2] 59).  
 $C_{16}H_{12}O_2$  46) Verbindung (aus Oxymethylphenylketonphenyläther). Sm. 120° (B. 35, 1680 C. 1902 [1] 1366).  
 $C_{16}H_{12}O_3$  \*13) Desylenessigsäure.  $\alpha$ -Form, Sm. 139—139,5;  $\beta$ -Form, Sm. 167° (A. 319, 169, 176, 178 C. 1902 [1] 104).  
 29) 1-Keto-2-[3,4-Dioxybenzyliden]2,3-Dihydroinden. Sm. 255—256° (B. 34, 414).  
 30) Äthyläther d. 2-Oxy-9,10-Phenanthrenchinon. Sm. 160—161° (A. 322, 164 C. 1902 [2] 283).  
 31) Äthyläther d. 3-Oxy-9,10-Phenanthrenchinon. Sm. 207—208° (204—205°) (A. 322, 147 C. 1902 [2] 282; A. 322, 155 C. 1902 [2] 282).  
 32) 7-Oxy-2-Benzyl-1,4-Benzpyron. Sm. 183° (B. 35, 867 C. 1902 [1] 813).  
 33) 5,7-Dioxy-4-Methylen-2-Phenyl-1,4-Benzpyran. Zers. bei 100°. HCl + H<sub>2</sub>O, Pikrat (B. 34, 1796).  
 34) 7,8-Dioxy-4-Methylen-2-Phenyl-1,4-Benzpyran. HCl, Pikrat (B. 34, 1800).  
 35) Methyläther d. 5-Oxy-2-Keto-1-Benzyliden-1,2-Dihydrobenzofuran. Sm. 143,5° (B. 30, 301).  
 36) 2-Oxyphenanthrenmethyläther-9-Carbonsäure. Sm. 228° (B. 34, 4002 C. 1902 [1] 202).

- $C_{16}H_{12}O_3$  37) 3-Phenanthroxylessigsäure. Sm. 189—191° (A. 321, 290 C. 1902 [2] 58).
- 38) Säure (aus d. Lakton d.  $\beta$ -Oxy- $\alpha$ - $\beta$ -Diphenyläthan- $\alpha$ -Ketocarbonsäure). Sm. 125° (B. 35, 1942 C. 1902 [2] 120).
- 39) Aethylester d. 9-Ketofluoren-1-Carbonsäure. Sm. 75—76° (M. 23, 891 C. 1902 [2] 1472).
- $C_{16}H_{12}O_4$  \*26) Bianhydrid d. 2-Oxy-1-Methylbenzol-3-Carbonsäure (o-Dikresotid). Sm. 231—231,5° (B. 35, 3645 C. 1902 [2] 1456).
- 38) 3,4-Methylenäther d.  $\gamma$ -Keto- $\gamma$ -[3,4-Dioxyphenyl]- $\alpha$ -[2-Oxyphenyl]-propen. Sm. 162—163° (B. 34, 1472).
- 39) Monoäthyläther d. 1,5-Dioxy-9,10-Anthrachinon. Sm. 163—164° (B. 35, 2929 C. 1902 [2] 1050).
- 40) Bianhydrid d.  $\alpha$ -Oxy- $\alpha$ -Phenyllessigsäure (Diphenylglykolid). Sm. 240° (B. 35, 3642 C. 1902 [2] 1455).
- 41) Bianhydrid d. 4-Oxy-1-Methylbenzol-3-Carbonsäure (p-Dikresotid). Sm. 243° (B. 35, 3646 C. 1902 [2] 1456).
- 42) Bianhydrid d. 3-Oxy-1-Methylbenzol-4-Carbonsäure (m-Dikresotid). Sm. 207—207,5° (B. 35, 3645 C. 1902 [2] 1456).
- 43) Aethylester d. Naphtaronylessigsäure. Sm. 146—147° (Soc. 81, 425 C. 1902 [1] 758, 999).
- $C_{16}H_{12}O_5$  \*3) Brasileïn. HCl,  $H_2SO_4$  (M. 23, 170 C. 1902 [1] 1106; B. 35, 1676 C. 1902 [1] 1355; B. 35, 2306 C. 1902 [2] 284).
- 24) Methylnataloëmodin. Sm. 238° (C. r. 134, 1113 C. 1902 [2] 62).
- 25) isom. Dimethyläther d. 1,2,3-Trioxo-9,10-Anthrachinon. Sm. 160° (M. 22, 735).
- $C_{16}H_{12}O_6$  \*1) Hämatein (B. 35, 1676 C. 1902 [1] 1356).
- 21) 7-Methyläther d. 5,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (7-M. d. Luteolin). Sm. 270° (B. 34, 1452).
- $C_{16}H_{12}O_7$  \*1) Rhamnetin (Soc. 81, 469 C. 1902 [1] 1014).
- $C_{16}H_{12}O_9$  C 55,2 — H 3,4 — O 41,4 — M. G. 348.
- $C_{16}H_{12}N_2$  1) Norbrasilinsäure. Sm. 250° u. Zers. (Soc. 81, 1034 C. 1902 [2] 747).
- \*6) 2,5-Diphenyl-1,4-Diazin. Sm. 195—196° (B. 35, 2294 C. 1902 [2] 362).
- \*12) 1-Methylphenanthrenimidazol (Epiosin; N-Methyldiphenylenimidazol). Sm. 195° (C. 1902 [1] 1302; B. 35, 3044 C. 1902 [2] 1259).
- 18) 5,12-Dihydro- $\beta$ - $\beta$ -Naphtophenazin. Sm. oberh. 300° (A. 319, 260 C. 1902 [1] 359).
- 19) Nitril d.  $\alpha$ - $\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. 198° (B. 34, 2423).
- $C_{16}H_{12}N_4$  4) 1,5-Diamido- $\alpha$ - $\beta$ -Naphtophenazin (B. 34, 1233).
- $C_{16}H_{13}N$  22) Base (aus Morphin) (B. 34, 1163).
- 23) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[4-Methylphenyl]akrylsäure. Sm. 61° (B. 34, 3089).
- $C_{16}H_{13}N_3$  \*13) Di[4-Cyanbenzyl]amin. Sm. 105—106° (C. 1901 [2] 762).
- 20) Di[3-Cyanbenzyl]amin. Sm. 54°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), Bichromat, Pikrat (B. 34, 3368).
- 21) 5-[ $\beta$ -Benzylidenamidophenyl]pyrazol. Sm. 65° (B. 35, 40 C. 1902 [1] 425).
- $C_{16}H_{14}O$  \*5)  $\gamma$ -Keto- $\alpha$ - $\beta$ -Diphenyl- $\alpha$ -Buten. Sm. 71° (M. 22, 668).
- \*7)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\gamma$ -[4-Methylphenyl]propen. Sm. 59—60° (B. 35, 1070 C. 1902 [1] 929).
- \*8)  $\gamma$ -Keto- $\alpha$ - $\beta$ -Diphenyl- $\alpha$ -Buten. Sm. 53° (M. 22, 667).
- 16) Äthyläther d. 3-Oxyphenanthren. Sm. 46° (A. 321, 289 C. 1902 [2] 58).
- 17)  $\alpha$ -Keto- $\alpha$ - $\gamma$ -Diphenyl- $\beta$ -Methylpropan. Sd. 210—213°<sub>25</sub> (Soc. 79, 932).
- 18) 2-Methyl-1-Benzylbenzofuran? Sm. 29°; Sd. 195—200°<sub>16</sub> (B. 35, 3560 C. 1902 [2] 1312).
- $C_{16}H_{14}O_2$  \*5) Diphenacyl. Sm. 144—145° (B. 35, 174 C. 1902 [1] 422).
- \*22) Aethylester d. Fluoren-9-Carbonsäure. Sm. 60° (165°?) (Bl. [3] 27, 881 C. 1902 [2] 991).
- \*23) Benzylester d.  $\beta$ -Phenylakrylsäure (D.R.P. 127649 C. 1902 [1] 445).
- 34) Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Buten. Sm. 102° (B. 35, 3553 C. 1902 [2] 1311).
- 35)  $\alpha$ - $\gamma$ -Diketo- $\alpha$ - $\beta$ -Diphenylbutan (Phenylacetylacetophenon). Sm. 54—56°. Cu (B. 34, 1483).

- $C_{10}H_{14}O_2$  36)  $\alpha\gamma$ -Diketo- $\alpha\gamma$ -Diphenyl- $\beta$ -Methylpropan. Sm. 82,5—84° (Soc. 79, 931).  
 37) 7-Oxy-4-Methyl-2-Phenyl-1,4-Benzpyran. Sm. 155—160° (B. 34, 1793).  
 38) Acetat d. 1-Oxy-9,10-Dihydroanthracen. Sm. 82—85° (B. 35, 2926 C. 1902 [2] 1050).
- $C_{10}H_{14}O_3$  \*24) Anhydrid d. Phenylessigsäure. Sm. 72° (B. 34, 2075).  
 \*38) 1-Acetat d. 1,9-Dioxy-9,10-Dihydroanthracen. Sm. 137—138° (B. 35, 2925 C. 1902 [2] 1050).  
 \*48) Anhydrid d. 1-Methylbenzol-4-Carbonsäure. Sm. 95° (R. 20, 156).  
 54) Dimethyläther d. 9,9-Dioxy-10-Keto-9,10-Dihydroanthracen. Sm. 129° (A. 323, 231 C. 1902 [2] 802).  
 55)  $\beta$ -Phenyläther d.  $\gamma$ -Keto- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 153° (B. 35, 3556 C. 1902 [2] 1311).  
 56) Phenyläther d.  $\delta$ -Oxy- $\alpha\gamma$ -Diketo- $\alpha$ -Phenylbutan (J. pr. [2] 65, 480 C. 1902 [2] 23).  
 57) 7-Methyläther d. 4,7-Dioxy-2-Phenyl-1,4-Benzpyran (B. 34, 3895 C. 1902 [1] 122).  
 58) 2-Methoxyphenylester d.  $\beta$ -Phenylakrylsäure (Styrakol). Sm. 130° (D. R. P. 62176). — \*II, 851.
- $C_{10}H_{14}O_4$  \*7)  $\alpha$ -Oxy- $\beta$ -[4-Oxyphenyl]akryl- $\alpha$ -Phenyl-4-Methyläthersäure. Sm. 200° (B. 35, 3556 C. 1902 [2] 1311).  
 \*21) Dimethylester d. Biphenyl-2,2'-Dicarbonsäure. Sm. 73—74° (A. 320, 140).  
 \*31) Dibenzylester d. Oxalsäure. Sm. 80—81°; Sd. 235°<sub>14</sub> (B. 35, 3441 C. 1902 [2] 1303).  
 43)  $\alpha\beta$ -Diphenyläthan-4,4'-Dicarbonsäure. Sm. noch nicht bei 320° (B. 34, 2424).  
 44) 4-Benzoyl-1-Aethylbenzol-2-Carbonsäure? Sm. 177° (A. 319, 344 C. 1902 [1] 351).  
 45) 3,4-Dimethylindiacen-2,5-Dicarbonsäure (B. 34, 2792).  
 46) Di[2-Methylphenylester] d. Oxalsäure. Sm. 91° (B. 35, 3443 C. 1902 [2] 1303).  
 47) Di[3-Methylphenylester] d. Oxalsäure. Sm. 106° (B. 35, 3443 C. 1902 [2] 1303).  
 48) Di[4-Methylphenylester] d. Oxalsäure. Sm. 149° (B. 35, 3443 C. 1902 [2] 1303).  
 49) Diacetat d. 2,2'-Dioxybiphenyl. Sm. 95° (B. 34, 1667). — \*II, 601.  
 50) Benzoat-2-Methylbenzoat d. Dioxymethan. Sm. 51—52° (C. r. 134, 717 C. 1902 [1] 975).  
 51) Benzoat-3-Methylbenzoat d. Dioxymethan. Sm. 36°; Sd. 227°<sub>12</sub> (C. r. 134, 717 C. 1902 [1] 975).  
 52) Benzoat-4-Methylbenzoat d. Dioxymethan. Sm. 74—75° (C. r. 134, 717 C. 1902 [1] 975).  
 53) Benzoat-Phenylacetat d. Dioxymethan. Sd. 230°<sub>12</sub> (C. r. 134, 717 C. 1902 [1] 975).
- $C_{10}H_{14}O_5$  \*1) Brasilin (M. 22, 207; Soc. 79, 1401 C. 1902 [1] 203; Soc. 81, 221 C. 1902 [1] 354, 816; B. 35, 2306 C. 1902 [2] 284; B. 35, 2608 C. 1902 [2] 595).  
 17) Anhydrid d. Oxyessigphenyläthersäure. Sm. 67—69° (C. 1901 [1] 1304).  
 18) Äthylester d.  $\alpha\gamma$ -Diketo- $\alpha$ -[1-Oxy-2-Naphtyl]propan- $\gamma$ -Carbonsäure (Ae. d. o-Oxyaphtoylbrenztraubensäure). Sm. 114—115° (B. 35, 860 C. 1902 [1] 812).  
 19) Diacetat d. Methyl-1,8-Dioxy-2-Naphtylketon. Sm. 168—169° (C. 1901 [2] 1287).
- $C_{10}H_{14}O_8$  \*1) Hämatoxilin (M. 22, 207; Soc. 79, 1396 C. 1902 [1] 203; Soc. 81, 235 C. 1902 [1] 354, 816).  
 \*7) Dehydrodivanillin. Sm. 305° (B. 34, 1540).  
 \*17) Triacetat d. 1,6,7-Trioxynaphtalin. Sm. 143—144° (M. 23, 530 C. 1902 [2] 744).  
 19)  $\alpha\gamma$ - $\epsilon\eta$ -Dilakton d.  $\alpha\beta\zeta\eta$ -Tetraoxy- $\delta$ -Phenyl- $\delta$ -Methyl- $\beta\epsilon$ -Heptadien- $\alpha\epsilon$ -Dicarbonsäure (Phenyläthylidenbistetroneensäure). Sm. 169—171° (A. 315, 159).



- $C_{16}H_{14}O_6$  20) Di[2-Methoxyphenylester] d. Oxalsäure. Sm. 127° (*B.* 35, 3449 *C.* 1902 [2] 1303).
- $C_{16}H_{14}O_7$  \*1) Lecanorsäure +  $H_2O$ . Sm. 165—166° u. Zers. (*A.* 317, 122; *J. pr.* [2] 63, 540).
- \*3) Gyrophorsäure. Sm. 200—202° (*J. pr.* [2] 63, 544).
- $C_{16}H_{14}O_{10}$  C 52,5 — H 3,8 — O 43,7 — M. G. 366.
- 1) Dimethylester d. Dipyromucylweinsäure. Sm. 131° (*Soc.* 79, 520).
- $C_{16}H_{14}N_2$  37) 4-Methyl-3,5-Diphenylpyrazol. Sm. 222—223° (*Soc.* 79, 931).
- 38) 5-Phenyl-3-Benzylpyrazol. Sm. 90,5—91° (*B.* 34, 1485).
- 39) 5-Methyl-2,4-Diphenylimidazol. Sm. 215°. HCl (*B.* 34, 640).
- 40) 2-Phenyl-4-[4-Methylphenyl]imidazol. Sm. 183° (*B.* 34, 640).
- 41) 4-Phenyl-2-[4-Methylphenyl]imidazol (*B.* 34, 640).
- 42) Nitril d.  $\alpha$ -[4-Methylphenyl]amido- $\alpha$ -Phenylakrylsäure. Sm. 135° (*B.* 35, 2506 *C.* 1902 [2] 438).
- $C_{16}H_{14}N_4$  12) 1,2-Di[2-Pyridylamido]benzol. Sm. 166—167°. (2HCl,  $PtCl_4$ ) (*B.* 35, 3676 *C.* 1902 [2] 1473).
- 13) 1,3-Di[2-Pyridylamido]benzol. Sm. 160° (*B.* 35, 3676 *C.* 1902 [2] 1473).
- 14) 1,4-Di[2-Pyridylamido]benzol. Sm. 200—201°. (2HCl,  $PtCl_4$ ) (*B.* 35, 3676 *C.* 1902 [2] 1473).
- $C_{16}H_{14}S_2$  2) Disulfid (aus p-Xylylsulfhydrat u. p-Xylylenbromid) oder  $C_{48}H_{48}S_6$ . Sm. 192—193° (*J. pr.* [2] 64, 529 *C.* 1902 [1] 260).
- $C_{16}H_{15}N$  16) 1-Aethyl-2-Phenylindol. Sm. 86° (D.R.P. 128660 *C.* 1902 [1] 611).
- 17) 1,5-Dimethyl-2-Phenylindol. Sm. 124° (D.R.P. 128660 *C.* 1902 [1] 611).
- 18) Tetrahydrofluorencinolin. Sm. 143° (*B.* 35, 3278 *C.* 1902 [2] 1261).
- 19) Verbindung (aus 1-Phenylpyrrol u. Benzaldehyd) =  $(C_{16}H_{15}N)_x$ . Sm. 231° (*B.* 35, 1654 *C.* 1902 [1] 1358).
- $C_{16}H_{15}N_3$  \*14) Nitril d.  $\alpha$ -[4-Dimethylamidophenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 90° (*B.* 34, 503).
- 15) Nitril d.  $\alpha$ -Phenylimido- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Sm. 121° (*B.* 35, 3572 *C.* 1902 [2] 1384).
- 16) Nitril d.  $\alpha$ -[4-Aethylamidophenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 112° (*B.* 34, 119).
- $C_{16}H_{16}O$  \*8)  $\beta$ -Keto- $\alpha$ - $\delta$ -Diphenylbutan. Sd. 205°<sub>24</sub> (*M.* 22, 665).
- 23) 2,4-Dimethylphenyläther d.  $\alpha$ -Oxy- $\alpha$ -Phenyläthen. Sd. 178°<sub>15</sub> (*Soc.* 79, 1188).
- $C_{16}H_{16}O_2$  24)  $\gamma$ -Keto- $\alpha$ - $\beta$ -Diphenylbutan. Sd. 311—312° (*M.* 22, 661).
- \*13)  $\beta\beta$ -Diphenylisobuttersäure. Sm. 87°. Ba +  $2H_2O$  (*B.* 34, 1998).
- 37) Methyläther d. Oxydimethyldiphenylketon. ( $CH_3 : CH_3 : OH = 1 : 2 : 4$ ). Sm. 82,5—83° (*G.* 32 [1] 502 *C.* 1902 [2] 581).
- 38) Methyläther d. Oxydimethyldiphenylketon  $C_{15}H_{11}O_3$ . ( $CH_3 : CH_3 : OH = 1 : 4 : 2$ ). Sd. 194—195°<sub>10</sub> (*G.* 32 [1] 497 *C.* 1902 [2] 581).
- 39) Methyläther d.  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[2-Oxyphenyl]propan. Sd. 223°<sub>20</sub> (*B.* 34, 410).
- 40) Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Phenylbutan. Sd. 180—183°<sub>14</sub> (*B.* 35, 3558 *C.* 1902 [2] 1311).
- 41) Phenyläther d. Oxymethyl-2,4-Dimethylphenylketon. Sm. 65°; Sd. 256—258°<sub>60</sub> (*B.* 35, 3564 *C.* 1902 [2] 1313).
- 42) Acetat d. 3-Oxy- $\beta$ -Benzyl-1-Methylphenylketon. Sm. 46,5° (*G.* 31 [1] 473).
- $C_{18}H_{16}O_3$  18) 4-Aethyläther- $\alpha$ -Phenyläther d. Oxymethyl-4-Oxyphenylketon. Sm. 102°; Sd. 245—248°<sub>25</sub> (*B.* 35, 3565 *C.* 1902 [2] 1313).
- 19)  $\alpha\gamma$ -Lakton d.  $\alpha\gamma$ -Dioxy- $\alpha\beta$ -Diphenylpropan- $\gamma$ -Carbonsäure. Sm. 127° (*B.* 35, 1942 *C.* 1902 [2] 120).
- 20) Lakton d. isom.  $\alpha\gamma$ -Dioxy- $\alpha\beta$ -Diphenylpropan- $\gamma$ -Carbonsäure. Sm. 170° (*B.* 35, 1942 *C.* 1902 [2] 120).
- 21) 2-Methylphenylester d. Oxyessig-2-Methylphenyläthersäure. Sm. 50—51° (D.R.P. 82105). — \*II, 423.
- $C_{16}H_{18}O_4$  20) 2,2'-Dimethyläther d.  $\beta$ -Oxy- $\alpha$ -Keto- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 101,5° (*Soc.* 79, 671).
- 21) 2,4-Dimethyläther- $\alpha$ -Phenyläther d. Oxymethyl-2,4-Dioxyphenylketon. Sm. 118,5°; Sd. 260—264°<sub>18</sub> (*B.* 35, 3565 *C.* 1902 [2] 1313).
- 22) 2-Methoxyphenylester d. Oxyessig-2-Methylphenyläthersäure. Sm. 81—82° (D.R.P. 85490). — \*II, 551.

- $C_{16}H_{16}O_4$  23) 2-Methoxyphenylester d. Oxyessig-4-Methylphenyläthersäure. Sm. 82—83° (D. R. P. 85490). — \*II, 551.
- 24) 2-Methoxyphenylester d. 4-Oxybenzoläthyläther-1-Carbonsäure. Sm. 97° (D. R. P. 57941). — \*II, 906.
- 25) 4-Methoxybenzoat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 91—92° (D. R. P. 57941). — \*II, 906.
- $C_{16}H_{16}O_5$  5) 2-Methoxyphenylester d. Oxyessig-2-Methoxyphenyläthersäure. Sm. 80° (D. R. P. 85490). — \*II, 552.
- $C_{18}H_{18}O_7$  6) Ugandaoloin (Capaloin). Sm. 138—139° (C. 1901 [2] 43).
- $C_{16}H_{16}N_2$  \*7) Di[ $\alpha$ -Phenyläthyliden]hydrazin. Sm. 121° (B. 34, 4301 C. 1902 [1] 304).
- 30) s-Di[ $\alpha$ -Phenyläthyliden]hydrazin. Sm. 127—128° (A. 317, 193).
- 31) 2-Isopropylidenhydrazidofluoren. Sm. 137—138° (B. 34, 1764).
- 32) Nitril d.  $\alpha$ -Aethylphenylamido- $\alpha$ -Phenylessigsäure. Fl. (B. 35, 3358 C. 1902 [2] 1196).
- $C_{16}H_{16}N_4$  12)  $\alpha\delta$ -Di[Phenylhydrazon]- $\beta$ -Buten. Sm. 236—237° (C. r. 134, 906 C. 1902 [1] 1272).
- $C_{18}H_{18}S_2$  3)  $\alpha$ -Phenyläthylidenäther d. 1,2-Di[Merkaptomethyl]benzol. Sm. 126° (B. 35, 1395 C. 1902 [1] 1096).
- $C_{16}H_{17}N$  \*4) 2-Phenylimidomethyl-1,3,5-Trimethylbenzol. Sm. 56° (B. 34, 831).
- 10) 1-Benzylamido-2,3-Dihydroinden. HCl,  $\alpha$ -Bromcamphersulfonat (2 isom. Formen), Pikrat (Soc. 79, 434).
- 11)  $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[1-Pyridyl]äthen. Sm. 47°. (2HCl, HgCl<sub>2</sub>), Nitril, PtCl<sub>4</sub> + 2H<sub>2</sub>O, Pikrat (B. 34, 1895).
- 12) 1-Benzyl-1,2,3,4-Tetrahydrochinolin. Sm. 36—37°; Sd. 218—222°<sub>35</sub> (B. 35, 185 C. 1902 [1] 429).
- 13) 2-Benzyl-1,2,3,4-Tetrahydroisochinolin. Sd. 194—197°<sub>15</sub>. (2HCl, PtCl<sub>4</sub>) (B. 34, 3990 C. 1902 [1] 210).
- $C_{16}H_{17}N_3$  10) Nitril d.  $\alpha$ -[4-Dimethylamidophenyl]amido- $\alpha$ -Phenylessigsäure. Sm. 106° (B. 34, 502; B. 35, 3343 C. 1902 [2] 1194).
- 11) Nitril d.  $\alpha$ -Phenylamido- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Sm. 114° (B. 35, 3572 C. 1902 [2] 1384).
- $C_{16}H_{18}O$  7)  $\alpha$ -Oxy- $\alpha\alpha$ -Diphenylbutan. Sd. 185°<sub>15</sub> (C. r. 135, 534 C. 1902 [2] 1209).
- 8) 4-Keto-3-Benzyliden-1,1,5-Trimethyl-1,2,3,4-Tetrahydrobenzol. Sm. 54—55° (A. 324, 105 C. 1902 [2] 1200).
- $C_{16}H_{18}O_2$  \*2)  $\beta\gamma$ -Dioxy- $\beta\gamma$ -Diphenylbutan. Sm. 120° (122°) (B. 34, 1538; C. 1902 [2] 1199).
- 11)  $\alpha\gamma$ -Dioxy- $\alpha\gamma$ -Diphenyl- $\beta$ -Methylpropan. Sm. 98—99° (Soc. 79, 930).
- 12) 1-Amylester d. Naphtalin-1-Carbonsäure. Sd. 222°<sub>35</sub> (Ph. Ch. 20, 581). — \*II, 864.
- 13) 1-Amylester d. Naphtalin-2-Carbonsäure. Sd. 265°<sub>100</sub> (Ph. Ch. 20, 582). — \*II, 865.
- $C_{18}H_{18}O_3$  10)  $\alpha$ -Phenyläther- $\gamma$ -[4-Methylphenyl]äther d.  $\alpha\beta\gamma$ -Trioxopropan (Glycerinphenyl-p-Tolyläther). Sm. 73,5—76° (Soc. 79, 1225).
- 11) 3-Valerianat d. 2,3-Dioxynaphtalin-2-Methyläther. Sm. 76° (J. pr. [2] 65, 536 C. 1902 [2] 368).
- $C_{16}H_{18}O_4$  \*3) Hydroanisoin. Sm. 174° (B. 34, 1539).
- $C_{18}H_{18}O_6$  \*8)  $\beta$ -Naphtolglykosid. Sm. 186—187° (B. 34, 964).
- \*9)  $\alpha$ -Naphtolgalaktosid. Sm. 202—203° (Soc. 79, 705).
- $C_{16}H_{18}O_7$  \*3) Nataloin. Sm. 202—204° (C. 1901 [1] 1318).
- $C_{18}H_{18}O_8$  \*4) Tetracetat d. 1,2-Di[Dioxyethyl]benzol. Sm. 126—127° (C. 1901 [2] 70).
- \*5) Tetracetat d. 1,3-Di[Dioxyethyl]benzol. Sm. 101° (C. 1901 [2] 70).
- \*6) Tetracetat d. 1,4-Di[Dioxyethyl]benzol. Sm. 164—165° (C. 1901 [2] 70).
- 8) Benzol-1,4-Di[Propyl- $\beta\beta$ -Dicarbonsäure]. Sm. 214—215° u. Zers. (B. 34, 2788).
- 9) Methylester d. 2,4,6-Triacetoxy-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 124—126° (125—126°) (M. 22, 226; M. 23, 107 C. 1902 [1] 1100).
- $C_{18}H_{18}N_2$  \*21) 2,4,2',4'-Tetramethylazobenzol. Sm. 125—126° (A. 320, 128).
- \*32) trans- $\alpha\gamma$ -Di[Phenylamido]- $\alpha$ -Buten. Sm. 126°. 2HCl (A. 318, 65, 79).
- \*33) cis- $\alpha\gamma$ -Di[Phenylamido]- $\alpha$ -Buten (A. 318, 69).

- $C_{16}H_{13}N_2$  39)  $\alpha$ -Phenylhydrazon- $\alpha$ -Phenylbutan. HCl (Sm. 199—201°) (B. 35, 1074 C. 1902 [1] 930).
- 40) 4-[4-Dimethylamidobenzyliden]amido-1-Methylbenzol. Sm. 120 bis 121° (B. 35, 3573 C. 1902 [2] 1354).
- 41) Amidin (aus Acetanilid u. 4-Amido-1,3-Dimethylbenzol). Sm. 153 bis 154° (AUBERT, Dissert. Basel 1895). — \*II, 312.
- 42) 1,3,5-Trimethyl-2-Phenyl-2,3-Dihydrobenzimidazol. Sm. 88° (B. 35, 1264 C. 1902 [1] 1062).
- $C_{10}H_{13}N_4$  \*2)  $\alpha$ -Di[Phenylhydrazon]butan. Sm. 125° (B. 34, 1497).
- 15) 3-Amido-7-Dimethylamido-1,2-Dimethyl-5,10-Naphtdiazin. Sm. 265° u. Zers. (B. 35, 648 C. 1902 [1] 751).
- 16) 2-Amido-8-Dimethylamido-1,3-Dimethyl-5,10-Naphtdiazin. Sm. 241—242° (B. 35, 648 C. 1902 [1] 751).
- 17) 2-Amido-8-Dimethylamido-1,4-Dimethyl-5,10-Naphtdiazin. Sm. 215—216° (B. 35, 648 C. 1902 [1] 751).
- $C_{10}H_{13}J_3$  2) 4-tert. Butyldiphenyljodoniumjodid. Sm. 124° (B. 34, 3675).
- $C_{10}H_{13}As_2$  1) 2,4,2',4'-Tetramethylarsenobenzol. Sm. 194—196° (A. 320, 333 C. 1902 [1] 922).
- 2) 2,5,2',5'-Tetramethylarsenobenzol. Sm. 208° (A. 320, 337 C. 1902 [1] 923).
- $C_{10}H_{13}Hg$  \*2) Quecksilberdi[2,5-Dimethylphenyl]. Sm. 123° (A. 315, 23).
- $C_{10}H_{19}N$  18) Isopropylphenylbenzylamin. Sd. 177—178°<sub>12</sub>. HCl, (2HCl, PtCl<sub>4</sub>), HBr, Pikrat (B. 35, 1282 C. 1902 [1] 1093).
- $C_{16}H_{19}N_5$  2) Di[2-Methylphenyl]biguanid. Sm. 178° (B. 34, 2600).
- 3) Di[4-Methylphenyl]biguanid. Sm. 140°. + C<sub>6</sub>H<sub>6</sub>O (B. 34, 2601).
- 4)  $\alpha$ -Phenyl-2,4-Dimethylphenylbiguanid. Sm. 204° (B. 34, 2602).
- $C_{16}H_{20}O_5$  6) Diäthylester d. Oxyfumar-2,4-Dimethylphenyläthersäure. Sd. 202 bis 203°<sub>17</sub> (Soc. 79, 1188).
- 7) Diäthylester d.  $\alpha$ -Keto- $\alpha$ -Phenylbutan- $\gamma\gamma$ -Dicarbonsäure (D. d. Benzoyldimethylmalonsäure). Fl. (B. 34, 4229 C. 1902 [1] 212).
- $C_{16}H_{20}O_6$  7) Trimethylester d.  $\beta$ -Phenylbutan- $\alpha\gamma\delta$ -Tricarbonsäure. Sm. 54—55° (A. 315, 236).
- 8) Aethylester d. 2,4-Diäthoxylbenzoylbrenztraubensäure. Sm. 152° (B. 34, 2477).
- 9) Aethylester d. 2,5-Diäthoxylbenzoylbrenztraubensäure. Sm. 90° (B. 34, 2477).
- $C_{16}H_{20}O_7$  \*8) Triäthylester d. 3-Oxy-1-Methylbenzol-2,4,6-Tricarbonsäure. Sm. 47°. Na (G. 31, [1] 145).
- $C_{16}H_{20}N_2$  \*9) 4,4'-Dimido-3,3'-Diäthylbiphenyl. 2HCl, Pikrat, Dipikrat (J. pr. [2] 66, 163 C. 1902 [2] 936).
- \*14) 4,4'-Di[Dimethylamido]biphenyl. Sm. 195° (B. 34, 23; C. 1901 [1] 1319).
- 23)  $\alpha\alpha$ -Di[Phenylamido]- $\beta$ -Methylpropan. Sd. 86—87°<sub>18</sub>. + SO<sub>2</sub> (A. 316, 133; M. 22, 464).
- 24) 4'-Amido-2,3'-Diäthyldiphenylamin? 2HCl, Pikrat (J. pr. [2] 66, 168 C. 1902 [2] 937).
- 25) Phenylhydrazon d. Aromadendral. Sm. 105° u. Zers. (C. 1901 [2] 1006).
- $C_{16}H_{20}N_4$  \*1) 3,3'-Di[Dimethylamido]azobenzol. Sm. 93° (C. 1901 [1] 105).
- $C_{16}H_{22}O_2$  6) Methylester d. Hyposantonigen Säure. Sm. 43° (G. 26 [2] 456). — \*II, 860.
- $C_{16}H_{22}O_3$  11) Benzylester d. Dihydroketocampholensäure. Sm. 46—47° (Bl. [3] 27, 411 C. 1902 [1] 1335).
- $C_{16}H_{22}O_4$  11) Diäthyläther d.  $\alpha\gamma$ -Diketo- $\alpha$ -[2,4-Dioxyphenyl]hexan. Sm. 60—61° (B. 34, 1697).
- $C_{16}H_{22}O_5$  8) Methylester d. Artemisinsäure. Sm. 180° (B. 34, 3718 C. 1902 [1] 45).
- 9) Verbindung (aus Ketodimethylidicyklopentancarbonsäure). Sm. 205° (Soc. 79, 784).
- $C_{10}H_{22}O_7$  \*4) Triäthylester d. Dimethylketobicyklopentantricarbonsäure. Na (Soc. 79, 768, 776).
- 5) Rhöododendrin. Sm. 187—187,5° (C. 1901 [2] 594).
- $C_{16}H_{22}O_{11}$  \*1) Pentaacetat d. d-Galaktose (B. 35, 838 Ann. C. 1902 [1] 758; M. 23, 484 C. 1902 [2] 513).

- $C_{16}H_{22}O_{11}$  \*2) Pentaacetat d. d-Glykose. Sm. 111,8° (*B.* 34, 3207; *M.* 23, 4 *C.* 1902 [1] 803; *M.* 23, 484 *C.* 1902 [2] 512).  
 \*3) isom. Pentaacetat d. Glykose. Sm. 131—132° (*M.* 22, 149, 1044; *B.* 34, 963, 3207).
- $C_{16}H_{22}N_2$  \*1) Bis-Dimethylanilin. Sm. 172° (*B.* 34, 20).  
 $C_{16}H_{22}N_4$  \*6) s-Di[3-Dimethylamidophenyl]hydrazin. Sm. 99—100° (*C.* 1901 [1] 105).  
 7) 4'-Dimethylamido-4,6,2'-Triamido-3-Methyldiphenylmethan. Sm. 177° (D.R.P. 133709 *C.* 1902 [2] 615).  
 8) 4-Methylamido-4'-Dimethylamido-2,2'-Diamidodiphenylmethan. Sm. 95° (D.R.P. 133709 *C.* 1902 [2] 615).
- $C_{16}H_{23}N$  5) 6-Phenylamidomethyl-1,1,3-Trimethyl-1,2,3,4-Tetrahydrobenzol. Sd. 187°<sub>19</sub> (*C.* 1901 [1] 1026).
- $C_{16}H_{24}O$  5) 4-Keto- $\beta\beta\mu$ -Trimethyl- $\beta\epsilon\eta\lambda$ -Tridekatetraën. Sd. 185°<sub>10</sub> (*C.* 1901 [1] 711).  
 6)  $\alpha$ -Propenyljonon. Sd. 155—165°<sub>15</sub> (D.R.P. 133758 *C.* 1902 [2] 613).  
 7)  $\beta$ -Propenyljonon. Sd. 160—172°<sub>13</sub> (D.R.P. 133758 *C.* 1902 [2] 613).  
 $C_{16}H_{24}O_2$  7)  $\beta$ -Acetyljonon. Sd. 165—175°<sub>20</sub> (D.R.P. 133758 *C.* 1902 [2] 614).  
 $C_{16}H_{24}O_3$  8) Aethylester d. aliphatischen Citrylidenessigsäure. Fl. (*C.* 1901 [2] 902).  
 9) Aethylester d. Allyleamphocarbonsäure. Sd. 163—164°<sub>12,5</sub> (*B.* 35, 3631 *C.* 1902 [2] 1468).  
 10) Aethylester d.  $\beta$ -Jononcarbonsäure. Sm. 49°; Sd. 160°<sub>11</sub> (*C.* 1901 [2] 1103).
- $C_{16}H_{24}O_4$  4) Verbindung (aus Pyrogallol und Cineol) (*B.* 35, 1210 *C.* 1902 [1] 998).  
 $C_{16}H_{24}O_5$  3) Diisoamylester d. Furan-2,5-Dicarbonsäure. Sm. 37,5°; Sd. 207 bis 211°<sub>18</sub> (*B.* 34, 3456).  
 8) Carvakrylglykosid (*Soc.* 79, 706).  
 $C_{16}H_{24}O_6$  7) Teträthylester d.  $\alpha$ -Buten- $\alpha\beta\gamma\delta$ -Tetracarbonsäure. Sd. 202—204°<sub>16</sub> (*Soc.* 81, 1213 *C.* 1902 [2] 888).  
 $C_{16}H_{24}O_3$  8) Tetraäthylester d.  $\alpha$ -Buten- $\alpha\gamma\gamma\delta$ -Tetracarbonsäure. Sd. 216 bis 218°<sub>12</sub> (*J. pr.* [2] 66, 106 *C.* 1902 [2] 732).
- $C_{16}H_{24}O_{10}$  \*3) Tetraacetat d.  $\beta$ -Aethyl- $\alpha$ -Glykosid. Sm. 106—107° (*B.* 34, 971).  
 4) Tetraacetat d.  $\beta$ -Aethylgalaktosid. Sm. 88° (*B.* 35, 3155 *C.* 1902 [2] 1177).  
 C 83,1 — H 10,8 — N 6,1 — M. G. 231.
- $C_{16}H_{25}N$  1) 6-Phenylamidomethyl-1,1,3-Trimethylhexahydrobenzol. Sd. 190°<sub>15</sub> (*C.* 1901 [2] 152).  
 2)  $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[1-Hexahydropyridyl]äthan. Sd. 300 bis 305°<sub>19</sub>. HCl, (2HCl, PtCl<sub>4</sub> + 4H<sub>2</sub>O), HBr (*B.* 34, 1895).
- $C_{16}H_{26}O$  3)  $\alpha$ -Oxy- $\delta$ -Butyl- $\beta$ -Dodekadiin. Sd. 178°<sub>16</sub> (*Bl.* [3] 27, 363 *C.* 1902 [1] 1319).  
 4) Diamylpropiolalkohol. Sd. 178°<sub>16</sub> (*C.* 1901 [2] 25).
- $C_{16}H_{26}O_2$  12) Storesinol. Sm. 156—161° (*C.* 1901 [2] 856, 857).  
 13) Styresinol. Sm. 161—162° (*C.* 1901 [2] 857).
- $C_{16}H_{26}O_3$  12) Isoamylester d. Camphocarbonsäure. Sd. 175—175,5°<sub>12</sub> (*B.* 35, 3511 *C.* 1902 [2] 1320).  
 13) Verbindung (aus Storesinol). Sm. 280° (*C.* 1901 [2] 857).
- $C_{16}H_{26}O_7$  2) Borneolglykuronsäure. Sm. 174—175°. Zn + 2H<sub>2</sub>O (*H.* 34, 391 *C.* 1902 [1] 255, 674).
- $C_{16}H_{26}O_8$  18) Thujonhydratglykuronsäure. K (*C.* 1901 [1] 53; *H.* 33, 594; *H.* 36, 453 *C.* 1902 [2] 1426).  
 19) Tetraäthylester d.  $\alpha\beta\beta\delta$ -Tetracarbonsäure. Sd. 200—205°<sub>15</sub> (*J. pr.* [2] 66, 108 *C.* 1902 [2] 732).  
 20) Verbindung (aus Sabinen). Pb (*H.* 36, 457 *C.* 1902 [2] 1426).
- $C_{16}H_{26}O_9$  2) Säure (aus Santalol). K<sub>3</sub> (*H.* 36, 448 *C.* 1902 [2] 1426).  
 $C_{16}H_{26}S_3$  1) Triäthyläther d.  $\beta\gamma\gamma$ -Trimerkapto- $\alpha$ -Phenylbutan (*B.* 34, 1401).  
 $C_{16}H_{26}O_6$  \*10) Triäthylester d.  $\gamma\gamma$ -Dimethylpentan- $\alpha\delta\delta$ -Tricarbonsäure (*C.* 1901 [2] 535).  
 11) Diäthylester d. l-Caprylläpfelsäure. Sd. 201°<sub>18</sub> (*Ph. Ch.* 36, 142).  
 12) Triäthylester d. Heptan- $\alpha\delta\delta$ -Tricarbonsäure. Sd. 200—205°<sub>30</sub> (*Soc.* 79, 131).  
 13) Triäthylester d. Heptan- $\alpha\epsilon\epsilon$ -Tricarbonsäure. Sd. 189—191°<sub>20</sub> (*Soc.* 79, 132).

- $C_{16}H_{23}O_7$  4) Mentholglykuronsäure +  $1\frac{1}{2}H_2O$ . Sm. 87—88°. Cd +  $3H_2O$  (H. 34, 389 C. 1902 [1] 674).
- $C_{16}H_{30}O_2$  9) Pentadekencarbonsäure? Sm. 36° (C. 1901 [1] 612).
- $C_{16}H_{30}O_3$  \*5) Anhydrid d. Caprilsäure. Sd. 280—285° (B. 34, 183).
- 8) Aethylester d.  $\delta$ -Keto- $\epsilon$ -Methyldodekan- $\epsilon$ -Carbonsäure. Sd. 166°<sub>16</sub> (C. r. 135, 110 C. 1902 [2] 512).
- $C_{16}H_{30}O_4$  7) Diäthylester d.  $\beta$ - $\gamma$ -Dimethyloktan- $\delta\delta$ -Dicarbonsäure. Sd. 148 bis 153°<sub>16</sub> (A. 318, 155).
- $C_{16}H_{30}O_5$  \*1) Agaricinsäure +  $1\frac{1}{2}H_2O$ . Salze siehe (C. 1902 [1] 823).
- $C_{16}H_{32}Cl_2$  1) Dichlorhexadekan. Sd. 205—210°<sub>16</sub> (Am. 28, 175 C. 1902 [2] 1081).
- $C_{16}H_{33}N$  C 80,3 — H 13,8 — N 5,9 — M. G. 239.
- $C_{16}H_{34}O$  1) 1-Dipropylmenthylamin (C. 1902 [2] 1238).
- \*2) Dioktyläther. Sd. 286—287° (G. 31 [1] 337).
- 3) Dicaprylalkohol. Sd. 173°<sub>17</sub> (C. 1901 [1] 928).
- 4) Dicaprylalkohol. Sd. 230—235° (B. 34, 3248).
- $C_{16}H_{34}N_2$  2)  $\beta$ -sec. Oktylhydrazonoktan. Fl. (J. pr. [2] 64, 118).

## — 16 III —

- $C_{16}H_8O_2N_2$  \*2) 5,6-Diketo-5,6-Dihydro- $\alpha\beta$ -Naphthophenazin (B. 34, 1056).
- $C_{16}H_8O_3N_2$  C 69,6 — H 2,9 — O 17,4 — N 10,1 — M. G. 276.
- 1) Anhydrobispyrindandion (B. 35, 1413 C. 1902 [1] 1165).
- $C_{16}H_9ON$  C 83,1 — H 3,9 — O 6,9 — N 6,1 — M. G. 231.
- 1) Ketochinolylenphenylenmethan. Sm. 175,5° (B. 34, 2470).
- 2) Fluorenonchinolin. Sm. 191° (B. 35, 3281 C. 1902 [2] 1261).
- $C_{16}H_9O_5N$  C 61,7 — H 2,9 — O 30,9 — N 4,5 — M. G. 311.
- 1) Acetat d.  $\beta$ -Nitro-3-Oxy-9,10-Phenanthrenchinon. Sm. 217° (J. 322, 157 C. 1902 [2] 282).
- $C_{16}H_{10}ON_2$  \*3) isom. Nitrosophenyl- $\beta$ -Naphthylcarbazol. Sm. 144—145° (C. 1901 [2] 428).
- \*5) 5-Oxy- $\alpha\beta$ -Naphthophenazin (B. 34, 1056).
- \*7) isom. 6-Oxy- $\alpha\beta$ -Naphthophenazin. Sm. noch nicht bei 300° (B. 34, 1055).
- 13) Oximidochinolylenphenylenmethan. Sm. 261° u. Zers. (B. 34, 2470).
- 14)  $\alpha\beta$ -Naphthophenazin-N-Oxyd. Sm. 182° (B. 34, 2448).
- $C_{16}H_{10}O_2N_2$  \*1) Indigotin (oder  $C_{22}H_{20}O_4N_4$ ) (J. pr. [2] 63, 390, 497; C. 1901 [2] 779; 1902 [1] 936, 1301; D. R. P. 130629 C. 1902 [1] 1084; D. R. P. 131934 C. 1902 [1] 1429; Ar. 240, 423 C. 1902 [2] 939; D. R. P. 135564, 135565 C. 1902 [2] 1234; D. R. P. 135638 C. 1902 [2] 1235).
- \*3) Indirubin (C. 1901 [1] 1169).
- $C_{16}H_{10}O_4N_2$  13) Dilakton d. 3,3'-Di[Oxymethyl]azobenzol-4,4'-Dicarbonsäure. Sm. 260—280° u. Zers. C. 1901 [2] 1160.
- $C_{16}H_{10}O_4N_4$  5) Base (aus 1,4-Diketocopyrin). 2HCl (B. 35, 1366 C. 1902 [1] 1113).
- $C_{16}H_{10}O_4J_4$  1) Di[2,4-Dijodphenylester] d. Bernsteinsäure. Sm. 209° (C. r. 133, 161).
- $C_{16}H_{10}O_5S$  1) Dieumaron sulfon (B. 34, 1887).
- $C_{16}H_{10}O_5N_2$  5) 4-Nitro-1-Acetylamido-9,10-Anthrachinon. Sm. 256—258° (C. 1901 [2] 1219).
- $C_{16}H_{10}O_6N_4$  3) 3,5-Dinitro-1,2-Dinitrosobenzol + Naphtalin. Sm. 172° (A. 307, 58). — \*II, 96.
- $C_{16}H_{10}O_8N_2$  3) Azobenzol-3,4,3',4'-Tetracarbonsäure. Sm. noch nicht bei 360°. Ag<sub>4</sub> (C. 1901 [2] 1160).
- $C_{16}H_{10}O_{12}N_4$  2) Dimethylester d. 2,6,2',6'-Tetranitrobiphenyl-4,4'-Dicarbonsäure. Sm. 173° (B. 34, 2184).
- $C_{16}H_{11}N_2Cl_2$  1) 2,5-Di[4-Chlorphenyl]-1,4-Diazin. Sm. 200—201° (Bl. [3] 25, 930).
- $C_{16}H_{11}N_2Br_2$  1) 2,5-Di[4-Bromphenyl]-1,4-Diazin. Sm. 235—236° (Bl. [3] 25, 930).
- $C_{16}H_{11}ON$  2) 9,10-Anhydrid d. 9-Acetylamido-10-Oxyphenanthren. Sm. 146 bis 147° (B. 35, 3130 C. 1902 [2] 1213).
- $C_{16}H_{11}ON_3$  6) Indigoimid (B. 31, 1253). — \*II, 946.
- $C_{16}H_{11}O_2N$  \*17) Nitril d.  $\beta$ -Benzoxyl- $\alpha$ -Phenylakrylsäure. Sm. 117—118° (A. 316, 334).
- \*19) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[3,4-Dioxyphenyl]akryl-3,4-Methylenäther-säure (B. 34, 3083).
- 20) 1,3-Diketo-2-[4-Amidobenzyliden]-2,3-Dihydroinden. Sm. 247° u. Zers. (B. 34, 2468).



- $C_{10}H_{11}O_4N$  21) 1,4-Diketo-3-Benzyliden-1,2,3,4-Tetrahydroisochinolin. Sm. 193 bis 194° (*B.* 35, 2424 *C.* 1902 [2] 456).
- 22) 6-Phenylchinolin-6'-Carbonsäure. Sm. 264—265° (*B.* 35, 3283 *C.* 1902 [2] 1262).
- $C_{16}H_{11}O_2Br$  7) 2-Brom-1-Keto-3-[2-Oxybenzyliden]-2,3-Dihydroinden. Zers. bei 220°. Na (*Bl.* [3] 27, 77 *C.* 1902 [1] 590).
- 8) 2-Brom-1-Keto-3-[3-Oxybenzyliden]-2,3-Dihydroinden. Sm. 239° (*Bl.* [3] 27, 77 *C.* 1902 [1] 590).
- 9) 2-Brom-1-Keto-3-[4-Oxybenzyliden]-2,3-Dihydroinden. Sm. 252° (*Bl.* [3] 27, 78 *C.* 1902 [1] 590).
- 10) Lakton d.  $\alpha$ -Brom- $\gamma$ -Oxy- $\beta\gamma$ -Diphenylpropen- $\alpha$ -Carbonsäure. Sm. 118—119° (*A.* 319, 170 *C.* 1902 [1] 105).
- 11) Lakton d.  $\gamma$ -Brom- $\gamma$ -Oxy- $\beta\gamma$ -Diphenylpropen- $\alpha$ -Carbonsäure. Sm. 107—108°; Zers. bei 130° (*A.* 319, 173 *C.* 1902 [1] 105).
- $C_{16}H_{11}O_3N$  \*25) Acetat d. 9-Oximido-10-Keto-9,10-Dihydroanthracen. Sm. 153 bis 154° u. Zers. (*A.* 323, 232 *C.* 1902 [2] 802).
- $C_{16}H_{11}O_3N_3$  \*10) 1-[4-Nitrophenyl]azo-2-Oxynaphtalin. Sm. 249° (*B.* 34, 2021).
- $C_{16}H_{11}O_4N$  10) 2,4-Diketo-3-Benzoylmethyl-3,4-Dihydro-1,3-Benzoxazin. Sm. 187° (*B.* 35, 3652 *C.* 1902 [2] 1457).
- 11) 3-Oxy-1-Benzoylindol-2-Carbonsäure. Sm. 196° u. Zers. (*B.* 34, 1856; D.R.P. 131400 *C.* 1902 [1] 1344).
- $C_{16}H_{11}O_4N_3$  5) 4-Phenylazo-5-Keto-3-Phenyl-4,5-Dihydroisoxazol-4'-Carbonsäure. Sm. 245—250° (*B.* 35, 928 *C.* 1902 [1] 807).
- $C_{16}H_{11}O_4N_5$  2) 2-Methyl-4,6-Di[4-Nitrophenyl]-1,3,5-Triazin. Sm. 280° (*B.* 34, 1990).
- $C_{16}H_{11}O_5N$  2)  $\beta$ -Phenylamido-5,6,8-Trioxyl-1,4-Naphtochinon (D.R.P. 127766 *C.* 1902 [1] 340).
- 3) Monoacetat d. 3-Nitro-9,10-Dioxyphenanthren. Sm. 234—235° u. Zers. (*B.* 35, 3126 *C.* 1902 [2] 1213).
- $C_{16}H_{11}O_5N_3$  C 59,1 — H 3,4 — O 24,6 — N 12,9 — M. G. 325.
- 1) 4,8-Dinitro-1-[4-Oxyphenyl]amidonaphtalin (*C.* 1901 [2] 799).
- $C_{16}H_{11}O_6N$  4) Berberidinsäure. Sm. 285° u. Zers. Ag, Ag<sub>2</sub> (*Soc.* 81, 158 *C.* 1902 [1] 358, 596).
- $C_{16}H_{11}O_6N_3$  C 49,3 — H 2,8 — O 37,0 — N 10,8 — M. G. 389.
- 1) Acetyllderivat d. 4,6-Dinitrodiphenylamin-2,2'-Dicarbonsäure. Sm. 254—255° (*M.* 22, 397).
- $C_{16}H_{12}ON_2$  \*4) 2-Oxy-1-Phenylazonaphtalin. Sm. 130° (*B.* 34, 2022).
- 26) 1-[4-Oxyphenylazo]naphtalin. Sm. 136° (*Am.* 25, 491).
- 27) 3-Oximido-2,5-Diphenylisopyrrol. Sm. 204° u. Zers. (*G.* 31 [2] 10).
- 28) 2-Acetyl-3-Phenyl-1,4-Benzdiazin. Sm. 99,5° (*B.* 35, 3318 *C.* 1902 [2] 1110).
- $C_{16}H_{12}O_2N_2$  30)  $\beta$ -Phenylazo-2,3-Dioxynaphtalin (*M.* 23, 520 *C.* 1902 [2] 744).
- 31) 1-[2-Oxyphenylazo]-2-Oxynaphtalin. Sm. 193° (*C.* 1902 [2] 938).
- 32) 1-[4-Oxyphenylazo]-2-Oxynaphtalin. Sm. 194° (*C.* 1902 [2] 938).
- 33) 1,1'-Dimethyl-6,6'-Bibenzoxazol. Sm. 150° (*B.* 35, 309 *C.* 1902 [1] 587).
- 34) Aethyläther d. Oxycumarophenazin. Sm. 162,5° (*B.* 34, 2297).
- $C_{16}H_{12}O_2N_6$  2) 1,2-Di[2-Pyridylnitrosamido]benzol. Sm. 136° (*B.* 35, 3676 *C.* 1902 [2] 1473).
- $C_{16}H_{12}O_2Br_2$  \*4)  $\beta\gamma$ -Dibrom- $\alpha\delta$ -Diketo- $\alpha\delta$ -Diphenylbutan. Sm. 175° (*B.* 35, 175 *C.* 1902 [1] 422).
- 7) Lakton d.  $\beta\gamma$ -Dibrom- $\gamma$ -Oxy- $\beta\gamma$ -Diphenylbuttersäure. Zers. bei 64° (*A.* 319, 171 *C.* 1902 [1] 105).
- $C_{16}H_{12}O_3N_2$  \*10) 4-Keto-2-Methyl-3-Phenyl-3,4-Dihydro-1,3-Benzdiazin. Sm. 246 bis 247° (*B.* 35, 3474, 3478 *C.* 1902 [2] 1317).
- 17) 3-Cyanbenzylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 175° (*B.* 34, 3367).
- 18) 4-Cyanbenzylmonamid d. Benzol-1,2-Dicarbonsäure. Sm. 192° (*B.* 34, 3368 Anm.).
- $C_{16}H_{12}O_3S$  3) Phenylester d. Naphtalin-1-Sulfonsäure. Sm. 75° (D.R.P. 91314). — \*II, 367.
- 4) Phenylester d. Naphtalin-2-Sulfonsäure. Sm. 98—99° (D.R.P. 91314). — \*II, 367.
- $C_{16}H_{12}O_4N_2$  12) 8-Nitro-1-Dimethylamido-9,10-Anthrachinon (D.R.P. 136777 *C.* 1902 [2] 1373).

- $C_{10}H_{12}O_3N_2$  13) Dianhydrid d. 4,4'-Diamidobiphenyl-3,3'-Di[Oxyessigsäure]. Sm. noch nicht bei 300° (D.R.P. 55506). — \*II, 602.
- 14) 4-Nitro-3-Methylbenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 155—156° (D.R.P. 134979 C. 1902 [2] 1084; D.R.P. 134980 C. 1902 [2] 1164).
- 15) Chrysaniisäure (A. 39, 79). — \*II, 946.
- 16) m-Nitromethylbenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 196 bis 197° (D.R.P. 134979 C. 1902 [2] 1084).
- 17) p-Nitromethylbenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 175 bis 176° (D.R.P. 134979 C. 1902 [2] 1084).
- $C_{16}H_{12}O_3N_2$  5)  $\alpha$ -Phenylazobenzoylessigsäure-2-Carbonsäure. Sm. 220° u. Zers. (B. 35, 928 C. 1902 [1] 807).
- 6) o-Nitromethoxylbenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 160 bis 161° (D.R.P. 134979 C. 1902 [2] 1084).
- $C_{10}H_{12}O_3N_6$  \*2) 5-Keto-4-[4-Nitrophenyl]azo-3-Methyl-1-[4-Nitrophenyl]-4,5-Dihydropyrazol. Sm. 296° (B. 34, 81).
- $C_{16}H_{12}O_6N_4$  3) 1-Amidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 214° (Soc. 79, 525).
- 4) 2-Amidonaphtalin + 1,3,5-Trinitrobenzol. Sm. 162° (Soc. 79, 529).
- $C_{16}H_{12}O_3N_2$  \*5) Dimethylester d. 4,4'-Dinitrobiphenyl-2,2'-Dicarbonsäure. Sm. 177° (B. 34, 2182).
- 7) Dimethylester d. 2,2'-Dinitrobiphenyl-4,4'-Dicarbonsäure. Sm. 159—160 (B. 34, 2183).
- $C_{16}H_{12}O_{10}N_2$  C 49,0 — H 3,1 — O 40,8 — N 7,1 — M. G. 392.
- 1) Di[ $\beta$ -Nitro-2-Methoxyphenylester] d. Oxalsäure. Sm. 225—235° (B. 35, 3450 C. 1902 [2] 1303).
- $C_{16}H_{12}NJ$  1) Jodmethylen d. Thebeniden. Sm. bei 240° (B. 34, 769).
- $C_{16}H_{12}N_2S$  3) Di[3-Cyanbenzyl]sulfid. Sm. 99,5° (B. 34, 3372).
- $C_{16}H_{12}N_2S_2$  5) Di[3-Cyanbenzyl]disulfid. Sm. 116—117° (B. 34, 3372).
- $C_{16}H_{12}N_3Cl$  2) 4-Amido-1-[4-Chlorphenyl]azonaphtalin. Sm. 187,5—188° (B. 35, 78 Anm.).
- $C_{16}H_{13}ON$  33) 2-Oxy-4-Methyl-3-Phenylketon. Sm. 275° (C. 1901 [2] 1229).
- 34) 2-Acetylamidophenanthren. Sm. 225—226° (B. 34, 2527; A. 321, 319 C. 1902 [2] 60).
- 35) 3-Acetylamidophenanthren. Sm. 200—201° (B. 34, 2526; A. 321, 316 C. 1902 [2] 59).
- 36) 9-Acetylamidophenanthren. Sm. 207—208° (B. 34, 1466).
- 37) 3-Phenyl-5-Benzylisoxazol. Sm. 92° (B. 34, 1484).
- $C_{16}H_{13}ON_3$  \*9) 3-Benzoyl-5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 55,5° (J. pr. [2] 65, 149 C. 1902 [1] 1002).
- 20) 5-[ $\beta$ -Benzoylamidophenyl]pyrazol. Sm. 227° (B. 35, 40 C. 1902 [1] 425).
- 21) 6-Oxy-5-Methyl-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 230°. (2HCl, 1tCl) (B. 34, 4247 C. 1902 [1] 209).
- 22) Äthyläther d.  $\alpha$ -D-Oxyindophenazin. Sm. 265° (B. 34, 4013 C. 1902 [1] 205).
- 23) Äthyläther d.  $\beta$ -D-Oxyindophenazin. Sm. 230° (B. 34, 4013 C. 1902 [1] 205).
- 24) Nitril d.  $\alpha$ -[4-Acetylamidophenyl]imido- $\alpha$ -Phenylessigsäure. Sm. 146° (B. 35, 3341 C. 1902 [2] 1194).
- 25) Verbindung (aus 5-Nitrofur-2 Carbonsäure). Sm. 232° (Am. 27, 202 C. 1902 [1] 908).
- $C_{16}H_{13}O_3N$  \*4) 2-Dimethylamido-9,10-Anthrachinon. Sm. 181° (Bl. [3] 25, 206).
- 32) 1-Dimethylamido-9,10-Anthrachinon. Sm. 138° (D.R.P. 136777 C. 1902 [2] 1372).
- 33) 9-Acetylamido-10-Oxyphenanthren. Sm. 223—224° (B. 35, 2737 C. 1902 [2] 644).
- 34) Nitril d.  $\alpha$ -Phenyl- $\alpha$ -[Phenoxy]acetessigsäure. Sm. 125° (J. pr. [2] 65, 480 C. 1902 [2] 23).
- $C_{16}H_{13}O_2N_3$  19) Nitril d. 2,6-Diketo-4-[4-Isopropylphenyl]-1,2,3,6-Tetrahydro-pyridin-3,5-Dicarbonsäure.  $HN_3$ , Cu + 8H<sub>2</sub>O, Coniinsalz, Nikotinsalz (C. 1902 [2] 699).
- 20) Nitril d. 2,6-Diketo-4-Methyl-4-[ $\beta$ -Phenyläthenyl]hexahydro-pyridin-3,5-Dicarbonsäure. Sm. 275—277° (C. 1901 [1] 581).

- C<sub>16</sub>H<sub>13</sub>O<sub>2</sub>N<sub>3</sub>** 21) Imid d. 2,3-Dicyan-1-Methyl-1-[ $\beta$ -Phenyläthyl]-R-Trimethylen-2,3-Dicarbonsäure. Sm. 203—205° (C. 1901 [1] 581).
- C<sub>16</sub>H<sub>13</sub>O<sub>2</sub>Cl** 5)  $\beta$ -Chlor- $\alpha$ -Diketo- $\alpha$ -Diphenylbutan ( $\gamma$ -Chlordiphenacyl). Sm. 141° (B. 35, 171 C. 1902 [1] 422).
- C<sub>16</sub>H<sub>13</sub>O<sub>2</sub>Br** \*2)  $\beta$ -Bromdiphenacyl. Sm. 161° (B. 34, 1610).  
\*3)  $\alpha$ -Bromdiphenacyl. Sm. 129° (B. 34, 1610).
- 10) isom.  $\beta$ -Brom- $\alpha$ -Diketo- $\alpha$ -Diphenylbutan ( $\gamma$ -Bromdiphenacyl). Sm. 139° (B. 35, 172 C. 1902 [1] 422).
- C<sub>16</sub>H<sub>13</sub>O<sub>3</sub>N** 21)  $\gamma$ -Keto- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[2-Nitrophenyl]propen. Sm. 106—107° (B. 35, 1071 C. 1902 [1] 930).  
22)  $\gamma$ -Keto- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[3-Nitrophenyl]propen. Sm. 137° (B. 35, 1072 C. 1902 [1] 930).  
23)  $\gamma$ -Keto- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[4-Nitrophenyl]propen. Sm. 161° (B. 35, 1073 C. 1902 [1] 930).  
24)  $\beta$ -Oximido- $\alpha$ - $\gamma$ -Diketo- $\alpha$ -Diphenylbutan. Sm. 131° u. Zers. (B. 34, 1487).  
25) 4-Dimethylamido-1-Oxy-9,10-Anthrachinon. Sm. 245° (D.R.P. 136777 C. 1902 [2] 1374).
- C<sub>16</sub>H<sub>13</sub>O<sub>3</sub>N<sub>3</sub>** 26) Acetat d. 9-Acetyl-3-Oxycarbazol. Sm. 113—114° (B. 34, 1683).  
\*4) 4-Oximido-5-[ $\alpha$ -Oximidobenzyl]-3-Phenyl-4,5-Dihydroisoxazol (B. 34, 1909).
- 10) Acetat d. 5-Keto-3-Oxy-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 166° (B. 34, 2337).
- C<sub>16</sub>H<sub>13</sub>O<sub>3</sub>N<sub>5</sub>** 3) 5-Keto-4-Phenylazo-3-Methyl-1-[4-Nitrophenyl]-4,5-Dihydropyrazol. Sm. 249° (B. 34, 80).
- C<sub>16</sub>H<sub>13</sub>O<sub>4</sub>N** 22) 4-Dimethylamido-1,2-Dioxy-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1375).
- C<sub>16</sub>H<sub>13</sub>O<sub>4</sub>N<sub>3</sub>** 7) 6- oder 7-Aethyläther d. 3,6- oder 3,7-Dioxy-2-[2-Nitrophenyl]-1,4-Benzdiazin. Sm. 215—216° (B. 34, 4009 C. 1902 [1] 204).  
8) Anhydrid d. 3,5-Di[Acetylamido]-9-Oxyphenoxazoniumhydroxyd (A. 322, 28 C. 1902 [2] 222).
- C<sub>16</sub>H<sub>13</sub>O<sub>5</sub>N** 9) Diacetylderivat d.  $\beta$ -Nitro-3-Amidocarbazol. Sm. 199,5° (B. 34, 1684).  
\*3) Benzoylphenylamidoessigsäure-2-Carbonsäure. Sm. 195° u. Zers. (B. 35, 1685 C. 1902 [1] 1362).
- C<sub>16</sub>H<sub>13</sub>O<sub>6</sub>N<sub>5</sub>** 9)  $\alpha$ -Phenyl- $\beta$ -[6-Nitro-3-Methoxyphenyl]akrylsäure. Sm. 165—166° (B. 34, 4000 C. 1902 [1] 202).  
C 51,7 — H 3,5 — O 25,9 — N 18,9 — M. G. 371.
- 1) 1-Amidonaphtalin + 2,4,6-Trinitro-1-Amidobenzol. Sm. 203° (Soc. 79, 532).  
2) 2-Amidonaphtalin + 2,4,6-Trinitro-1-Amidobenzol. Sm. 161,5° (Soc. 79, 532).
- C<sub>16</sub>H<sub>13</sub>O<sub>7</sub>N** \*1) Papaverinsäure (M. 23, 384 C. 1902 [2] 204).
- C<sub>16</sub>H<sub>13</sub>NS<sub>4</sub>** 1) Rhodanid (aus Trithiodibutolakton). Sm. 212° u. Zers. (B. 34, 3404).
- C<sub>16</sub>H<sub>14</sub>ON<sub>3</sub>** 45)  $\alpha$ -Imido- $\alpha$ -Benzoylmethylenamido- $\alpha$ -[4-Methylphenyl]methan. Sm. 220° (B. 34, 3028).  
46)  $\alpha$ -Imido- $\alpha$ -[4-Methylbenzoyl]methylenamido- $\alpha$ -Phenylmethan. Sm. 254°. HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 3026).  
47) 2-[4-Methylphenyl]amido-3-Keto-5-Methylpseudoindol. Sm. 180° u. Zers. (C. 1901 [1] 71). — \*II, 961.  
48) 2-[2-Methylphenyl]amido-3-Keto-7-Methylpseudoindol. Sm. 140° (C. 1901 [1] 71). — \*II, 960.  
49) Nitrosotetrahydrofluorencinolin. Sm. 162° (B. 35, 3280 C. 1902 [2] 1261).
- C<sub>16</sub>H<sub>14</sub>ON<sub>4</sub>** \*1) 5-Keto-4-Phenylhydrazon-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 155° (B. 34, 2739).  
7) 4- oder 5-Phenylhydrazon d. 4,5-Diketo-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 155° (B. 35, 1439 C. 1902 [1] 1230).
- C<sub>16</sub>H<sub>14</sub>OBr<sub>2</sub>** 5)  $\beta$ - $\gamma$ -Dibrom- $\alpha$ -Keto- $\alpha$ - $\gamma$ -Diphenyl- $\beta$ -Methylpropan. Fl. (Soc. 79, 935).
- C<sub>16</sub>H<sub>14</sub>O<sub>2</sub>N<sub>2</sub>** \*9)  $\alpha$ -Phenylazo- $\alpha$ -Benzoyl- $\beta$ -Ketopropan. Sm. 99° (J. pr. [2] 65, 140 C. 1902 [1] 1001).  
\*16) 2,3-Diketo-1,4-Diphenylhexahydro-1,4-Diazin. Sm. 258°; Sd. 325°<sub>12</sub> (B. 35, 3439 C. 1902 [2] 1303).  
39)  $\gamma$ -Phenylhydrazon- $\alpha$ -Diketo- $\alpha$ - $\beta$ -Phenylbutan. Sm. 167° (B. 35, 3316 C. 1902 [2] 1110).

- $C_{10}H_{14}O_2N_2$  40) 1-Amido-4-Dimethylamido-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1375).
- 41) 6- oder 7-Aethyläther d. 3,6- oder 3,7-Dioxy-2-Phenyl-1,4-Benzdiazin. Sm. 205° (B. 34, 4009 C. 1902 [1] 205).
- $C_{10}H_{14}O_2N_4$  42) Diacetylderivat d. 3-Amidocarbazol. Sm. 199,5° (B. 34, 1684).
- 14) Methyläther d. 4-Benzylidenamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 139—140° (C. 1901 [1] 936).
- 15)  $\alpha$ -[2-Benzimidazolyl]phenylhydrazonpropionsäure. Zers. bei 120 bis 180° (B. 34, 2965).
- 16)  $\alpha$ -[3-Benzimidazolyl]phenylhydrazonpropionsäure. Sm. 184° (B. 34, 2969).
- 17)  $\alpha$ -[4-Benzimidazolyl]phenylhydrazonpropionsäure. Sm. 220° u. Zers. (B. 34, 2969).
- 18) Nitril d.  $\alpha$ -[4-Aethylamidophenyl]imido- $\alpha$ -[4-Nitrophenyl]essigsäure. Sm. 164° (B. 34, 119).
- $C_{10}H_{14}O_2Se$  1) Di[Benzoylmethyl]selenid (Selenoacetophenon). Sm. 73° (A. 314, 282).
- $C_{10}H_{14}O_2Se_2$  1) Di[Benzoylmethyl]diselenid (Diselenoacetophenon). Sm. 125° (A. 314, 287).
- $C_{10}H_{14}O_3N_2$  21) 4-Nitro-2-Acetylamido- $\alpha\beta$ -Diphenyläthen. Sm. 220° (B. 34, 2845).
- 22)  $\alpha$ -Phenyl- $\beta$ -[6-Diazo-3-Methoxyphenyl]akrylsäure. Zers. bei 140 bis 150° (B. 34, 4001 C. 1902 [1] 202).
- 23) 2-Nitro-4-Acetylamido- $\alpha\beta$ -Diphenyläthen. Sm. 192—193° (B. 34, 2846).
- 24)  $\alpha\beta$ - oder  $\beta\gamma$ -Dioximido- $\alpha$ - oder  $\gamma$ -Keto- $\alpha\delta$ -Diphenylbutan. Sm. 167° (B. 34, 1488).
- 25) 6- oder 7-Aethyläther d. 3,6-Dioxy- oder 3,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzdiazin. Sm. 242—243° (B. 34, 2298).
- $C_{10}H_{14}O_3N_4$  \*8) Methylester d. Formazylglyoxalsäure. Sm. 124—125°. Ag (J. pr. [2] 64, 206).
- 10)  $\gamma$ -Semicarbazon- $\gamma$ -Phenyl- $\alpha$ -[2-Nitrophenyl]propen. Sm. 177,5° (B. 35, 1067 C. 1902 [1] 929).
- 11)  $\gamma$ -Semicarbazon- $\gamma$ -Phenyl- $\alpha$ -[4-Nitrophenyl]propen. Sm. 178—179° (B. 35, 1069 C. 1902 [1] 929).
- $C_{10}H_{14}O_4N_2$  \*2) 2-[2-Acetylamidobenzoyl]amidobenzol-1-Carbonsäure. Sm. 224 bis 225° (B. 35, 3478 C. 1902 [2] 1317).
- \*7) Diacetat d. 2,4-Dioxybenzol. Sm. 104° (u. 106°) (Am. 26, 161).
- 11) Diacetylderivat d. 3,5-Diamido-1,2-Dioxybenzol-1,2-Phenylenäther. Sm. 252,5—253° u. Zers. (Am. 26, 364).
- 12) 2,3-Dicyan-1-Methyl-1-[ $\beta$ -Phenyläthyl]-R-Trimethylen-2,3-Dicarbonsäure. Na<sub>3</sub> (C. 1901 [1] 581).
- 13)  $\alpha$ -Pyridyltruxillsäure. (HCl, AuCl<sub>3</sub>) (Ar. 240, 198 C. 1902 [1] 1233).
- 14)  $\beta$ -Pyridyltruxillsäure. (HCl, AuCl<sub>3</sub>) (Ar. 240, 190 C. 1902 [1] 1232).
- $C_{10}H_{14}O_4Br_4$  1) Dibromxylochinhydron. Sm. 171—172° (B. 35, 436; B. 35, 2303 C. 1902 [2] 271).
- 2) 2,3,4,5-Tetrabrom-3,4-Dimethyl-2,3,4,5-Tetrahydroindacen-2,5-Dicarbonsäure. Sm. noch nicht bei 300° (B. 34, 2792).
- $C_{10}H_{14}O_4S$  3) Dibenzylsulfid-3,3'-Dicarbonsäure. Sm. 197°. Ag<sub>2</sub> (B. 34, 3371).
- $C_{10}H_{14}O_4S_2$  4) Dibenzyldisulfid-3,3'-Dicarbonsäure. Sm. 200—202°. Ag<sub>2</sub> (B. 34, 3372).
- $C_{10}H_{14}O_5N_2$  8) 2-[3-Nitro-4-Dimethylamidobenzoyl]benzol-1-Carbonsäure + H<sub>2</sub>O. Sm. 170° (Bl. [3] 25, 511).
- $C_{10}H_{14}O_6N_4$  10) Monoacetylderivat d.  $\alpha$ -[4-Nitrophenyl]imido- $\alpha$ -[5-Nitro-2-Amido-3-Oxymethylphenyl]methan. Sm. 223—225° u. Zers. (B. 35, 744 C. 1902 [1] 754).
- 11)  $\alpha\beta$ -Diacetyl- $\alpha\beta$ -Di[4-Nitrophenyl]hydrazin. Sm. 186—187° (C. r. 134, 1219 C. 1902 [2] 41).
- $C_{10}H_{14}NCl$  6) 5-Chlor-1-Aethyl-2-Phenylindol. Sm. 107° (D.R.P. 128660 C. 1902 [1] 611).
- $C_{10}H_{14}NJ$  5) Jodbenzylat d. Isochinolin. Sm. 175—176° (B. 34, 3989 C. 1902 [1] 210).
- $C_{10}H_{15}ON$  29) Diphenylamid d. Propen- $\alpha$ -Carbonsäure. Sm. 115—116° (B. 34, 2140).
- 30) Diphenylamid d. Propen- $\beta$ -Carbonsäure. Sm. 108° (B. 34, 2141).
- $C_{10}H_{15}ON_3$  13)  $\alpha$ -Phenylhydrazon- $\alpha$ -Benzylidenamido- $\beta$ -Ketopropan. Sm. 159 bis 159,5° (B. 34, 542).

- $C_{16}H_{15}ON_3$  14) Nitril d.  $\alpha$ -[4-Acetylamidophenyl]amido- $\alpha$ -Phenylessigsäure. Sm. 180° (B. 35, 3341 C. 1902 [2] 1194).
- $C_{16}H_{15}ON_3$  \*1) 4-Phenylureido-1-Phenyl-3-Methyl-1,2,5-Triazol. Sm. 240° (J. pr. [2] 64, 229).
- $C_{16}H_{15}OCl$  \*1)  $\alpha$ -Chlor- $\gamma$ -Keto- $\alpha$ - $\beta$ -Diphenylbutan (M. 22, 667).
- $C_{16}H_{15}O_2N$  \*9) Methyl-2-Phenylacetylamidophenylketon. Sm. 79–80° (C. 1901 [2] 1228).
- 47)  $\beta$ -Phenyläther d.  $\gamma$ -Oximido- $\beta$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten. Sm. 169° (B. 35, 3554 C. 1902 [2] 1311).
- 48) 4-Diacetylamidobiphenyl. Sm. 120° (J. pr. [2] 63, 456).
- 49) 3,4-Methylenäther d.  $\beta$ -[3,4-Dioxyphenyl]- $\alpha$ -[5-Aethyl-2-Pyridyl]-äthen. Sm. 92°. HCl, (HCl, HgCl<sub>2</sub>), (2HCl, PtCl<sub>4</sub>) (B. 34, 2225).
- $C_{16}H_{15}O_2N_3$  \*5)  $\beta$ -Phenylhydrazon- $\beta$ -Acetylamido- $\alpha$ -Keto- $\alpha$ -Phenyläthan. Sm. 143 bis 156° (J. pr. [2] 65, 148 C. 1902 [1] 1002).
- 20)  $\beta$ -Formyl- $\beta$ -Acetyl- $\alpha$ -Benzylidenamido- $\alpha$ -Phenylhydrazin. Sm. 125° (B. 35, 1902 C. 1902 [2] 42).
- 21) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-[ $\beta$ -Phenyläthyl]hexahydro-pyridin. Sm. 223–224,5°. (NH<sub>4</sub>)<sub>2</sub> (C. 1901 [1] 581).
- 22) Benzylimid d.  $\alpha\gamma$ -Dicyan- $\beta$ - $\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 149–150° (C. 1901 [1] 578).
- $C_{16}H_{15}O_2Br$  1) Bromlapachonon. Sm. 126° (C. 1901 [1] 114).
- $C_{16}H_{15}O_3N$  \*20) 2-[4-Dimethylamidobenzoyl]benzol-1-Carbonsäure. Sm. 202–203°. + CH<sub>2</sub>O, + C<sub>6</sub>H<sub>6</sub>O, Ba + 2H<sub>2</sub>O (Bl. [3] 25, 168).
- 43) 9,9-Dimethyläther d. 10-Oximido-9,9-Dioxy-9,10-Dihydro-anthracen. Sm. 171° (A. 323, 227 C. 1902 [2] 802).
- 44)  $\alpha$ -Phenyl- $\beta$ -[6-Amido-3-Methoxylphenyl]akrylsäure. Sm. 227 bis 228°. Pb, Ag (B. 34, 4001 C. 1902 [1] 262).
- 45) 4-[Methylbenzylamido]benzol-1-Ketocarbonsäure. Sm. 85–87° u. Zers. (C. 1901 [1] 239). — \*II, 948.
- 46) Aethylester d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 98° (J. pr. [2] 64, 84).
- 47) Aethylester d. 3-[4-Methylbenzoyl]pyridin-2-Carbonsäure. Sm. 58° (M. 22, 116).
- 48) Methylamid d.  $\alpha$ -Benzoxyl- $\alpha$ -Phenylessigsäure (M. d. Benzoylmandel-säure). Sm. 139° (Soc. 79, 1355 C. 1902 [1] 25).
- $C_{16}H_{15}O_3N_3$  3) 3,5-Di[Acetylamido]phenoxazin (A. 322, 25 C. 1902 [2] 222).
- $C_{16}H_{15}O_4N$  22) Benzol-1-Carbonsäure-2-Benzylamidoessigsäure. Sm. 190° u. Zers. (B. 35, 1699 C. 1902 [1] 1363).
- 23) 4-Methylbenzoat d. 4-Methoxylbenzhydroxamsäure. Sm. 146° (C. 1899 [2] 179). — \*II, 909.
- 24) 4-Methoxylbenzoat d. 4-Methylbenzhydroxamsäure. Sm. 155° (C. 1899 [2] 179). — \*II, 909.
- 25) 2-Methoxylphenylester d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 179° (D.R.P. 67923). — \*II, 789.
- $C_{16}H_{15}O_4N_3$  10) Azobenzol-4-Methylamidoessigsäure-4'-Carbonsäure. Ba (B. 35, 579 C. 1902 [1] 580).
- $C_{16}H_{15}O_5N$  12) 3,4-Dioxy-1-[4-Oxyphenylimido]methylbenzol-3,4-Dimethyläther-2-Carbonsäure (Opianal-4-Oxyanilin). Sm. 223° (B. 34, 1018).
- 13) 3,4-Dioxy-1-N-Phenylbenzaloxim-3,4-Dimethyläther-2-Carbonsäure (Opiansäure-N-Phenyloxim). Sm. 174° (B. 34, 1017).
- 14) 1-Aethylester-4-[2-Oxyphenylester] d. Benzol-1-Carbonsäure-2-Amidomeissensäure. Sm. 170–171° (D.R.P. 92535). — \*II, 790.
- 15) Diacetat d. 5-Acetylamido-1,4-Dioxynaphtalin. Sm. 165° (B. 32, 2878). — \*II, 596.
- 16) Salicylat d. 4-[ $\alpha$ -Oxypropionyl]amido-1-Oxybenzol. Sm. 268° (D.R.P. 82635). — \*II, 888.
- $C_{16}H_{15}O_5N_3$  4) Phenylamid d. 4,6-Dinitro-1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. 300–310° (B. 34, 1828).
- $C_{16}H_{15}O_6Br$  2) Aethylester d.  $\alpha$ -[3-Brom-1,4-Dioxy-2-Naphtyl]- $\beta$ -Ketopropan- $\alpha$ -Carbonsäure. Sm. 125° u. Zers. (B. 34, 1552).
- $C_{16}H_{15}O_6N$  2) Acetat d. 8-Diacetylamido-7-Oxy-4-Methyl-1,2-Benzpyron. Sm. 183–184° (B. 34, 674).
- $C_{16}H_{15}NS$  2) 3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 74,5° (J. pr. [2] 65, 152 C. 1902 [1] 991).



- $C_{16}H_{15}N_2Cl$  5)  $\gamma$ -Phenylhydrazon- $\alpha$ -[4-Chlorphenyl]- $\alpha$ -Buten. Sm. 160° (*J. pr.* [2] 65, 279 *C. 1902* [1] 1215).
- $C_{16}H_{15}N_3S$  3) Äthyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 97° (*Am.* 27, 266 *C. 1902* [1] 1299).
- $C_{16}H_{15}N_3S_2$  3) Phenyläthylenäther d. Phenyl-di[Imidomerkaptomethyl]amin (Pseudophenyläthylenphenyldithioburet). Sm. 205° (*C. 1902* [1] 1401).
- 4) Methyläther d. 5-Merkapto-2-Phenylimido-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 68° (*B. 34*, 316).
- 5) Methyläther d. 5-Merkapto-2-[4-Methylphenyl]imido-3-Phenyl-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 101° (*B. 34*, 318).
- 6) Methyläther d. 3-Merkapto-5-Thiocarbonyl-1-Phenyl-4-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 152° (*B. 34*, 318).
- 7) Methyläther d. 3-Merkapto-5-Thiocarbonyl-4-Phenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 153° (*B. 34*, 315).
- $C_{16}H_{15}N_3S$  \*1) 4-Phenylthioureido-1-Phenyl-3-Methyl-1,2,5-Triazol. Sm. 195° (*J. pr.* [2] 64, 229).
- $C_{16}H_{16}ON_2$  35) Nitril d.  $\alpha$ -[4-Aethoxyphenyl]amido- $\alpha$ -Phenyllessigsäure. Sm. 85° (*B. 35*, 3347 *C. 1902* [2] 1194).
- 36) Benzylidenhydrazid d.  $\beta$ -Phenylpropionsäure. Sm. 132,5° (*J. pr.* [2] 64, 302).
- $C_{16}H_{16}O_2N_2$  \*7) 4,4'-Di[Acetylamido]biphenyl. Sm. 330—331° (*B. 35*, 1435 *C. 1902* [1] 1206).
- \*25) s-Di[Phenylacetyl]hydrazin. Sm. 231° (*J. pr.* [2] 64, 318).
- \*62) Äthyläther d. Phenylamidobenzoylimidooxymethan. *Fl. (Am.* 26, 227).
- 68) 2,2'-Di[Formylamido]-4,4'-Dimethylbiphenyl. Sm. 187° (*B. 34*, 3333).
- 69)  $\alpha$  $\beta$ -Di[2-Acetylphenyl]hydrazin. *Sd.* 121—122°<sub>17</sub> (*Ar.* 240, 434 *C. 1902* [2] 939).
- 70) Dibenzoyläthylhydrazin +  $H_2O$ . Sm. 132—133° (wasserfrei) (*B. 34*, 3268).
- 71) 6-Äthyläther-2-Phenyläther d. 6-Oxy-2-Oxymethylbenzimidazol. Sm. 168—169°.  $HCl$ ,  $H_2SO_4$ , Pikrat (*J. pr.* [2] 63, 188).
- 72) 2-[2-Methoxyphenyl]äther d. 2-Oxymethyl-5-Methylbenzimidazol. Sm. 78—80°. Pikrat (*J. pr.* [2] 63, 192).
- 73) Äthylester d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylamidoessigsäure. Sm. 73 bis 74°. (2HCl,  $PtCl_4$ ) (*Soc.* 79, 699).
- 74) 2-Oxybenzylidenhydrazid d.  $\beta$ -Phenylpropionsäure. Sm. 148,5° (*J. pr.* [2] 64, 302).
- $C_{16}H_{16}O_2N_4$  \*1) Nitrosoäthylidenanilin ( $\alpha$  $\gamma$ -Di[Phenylnitrosamido]- $\alpha$ -Buten). Sm. 161° (*A.* 318, 62).
- \*11)  $\alpha$  $\beta$ -Di[Phenylhydrazon]buttersäure. Sm. 212° (*B. 34*, 2740).
- \*13) Äthylester d. Formazylcarbonsäure. Sm. 114,5—117°. *Ag* (*J. pr.* [2] 65, 125 *C. 1902* [1] 995).
- 21) 6-[2-Nitrophenyl]diazamido-1,2,3,4-Tetrahydronaphtalin. Sm. 134° (*Soc.* 81, 904 *C. 1902* [2] 214).
- 22) 6-[4-Nitrophenyl]diazamido-1,2,3,4-Tetrahydronaphtalin. Sm. 179° u. Zers. (*Soc.* 81, 904 *C. 1902* [2] 214).
- 23) Methyläther d. 4-Methylphenylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 103° (*B. 34*, 2317).
- $C_{16}H_{16}O_2N_6$  C 59,3 — H 4,9 — O 9,9 — N 25,9 — M. G. 324.
- 1)  $\alpha$  $\beta$ -Disemicarbazon- $\alpha$  $\beta$ -Diphenyläthan. Sm. 243—244° (*B. 35*, 346 *C. 1902* [1] 584).
- $C_{16}H_{16}O_3N_2$  43) 1- $\alpha$ -[ $\beta$ -Phenylureido]- $\beta$ -Phenylpropionsäure. Sm. 180—181° (*H.* 33, 173).
- 44)  $\alpha$ -[4-Methylphenyl]äthylidenhydrazid d. 2-Oxyphenylkohlsäure. Sm. 155—186° (*A.* 317, 195).
- 45)  $\alpha$ -[4-Methylphenyl]äthylidenhydrazid d. 3-Oxyphenylkohlsäure. Sm. 182° (*A.* 317, 199).
- 46)  $\alpha$ -[4-Methylphenyl]äthylidenhydrazid d. 4-Oxyphenylkohlsäure. Sm. 208—209° (*A.* 317, 203).
- 47) Äthylester d. Azobenzol-4-Oxyessigsäure. Sm. 70° (*B. 34*, 3937 *C. 1902* [1] 117).
- $C_{16}H_{16}O_3S$  1)  $\alpha$ -Phenylsulfon- $\gamma$ -Keto- $\alpha$ -Phenylbutan. Sm. 115° (*B. 35*, 806 *C. 1902* [1] 755).
- $C_{16}H_{16}O_4N_2$  32) s-Di[ $\alpha$ -Oxyphenylacetyl]hydrazin. Sm. 225° (*B. 34*, 2798).

- $C_{16}H_{10}O_4N_2$  33) Di[6-Oxy-3-Oxymethylbenzyliden]hydrazin. Sm. 219° (B. 34, 2457).  
 34) Monomethylester d. 4,4'-Diamidodiphenylmethan-3,3'-Dicarbonsäure. Sm. 178—179°. Ag (J. pr. [2] 63, 256).  
 $C_{16}H_{10}O_3N_2$  35) Aethylester d.  $\alpha$ -Phenyl-3-Nitrophenylamidoessigsäure. Sm. 83 bis 84° (B. 30, 2766). — \*II, 820.  
 36) 2-Nitrophenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Fl. (B. 34, 2058).  
 37) 3-Nitrophenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 81° (B. 34, 2062).  
 38) 4-Nitrophenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 108° (B. 34, 2065).  
 39) 2-Nitrophenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 71°; Sd. 236—237°<sub>17</sub> (B. 34, 2058).  
 40) 3-Nitrophenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 119° (B. 34, 2062).  
 41) 4-Nitrophenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 182° (B. 34, 2065).  
 42) 4-Nitrophenylamid d.  $\beta$ -Oxyisobutterphenyläthersäure. Sm. 109° (B. 34, 2068).  
 $C_{16}H_{10}O_4S_2$  2) Cyklo- $\alpha$ -o-Xylylendisulfon- $\alpha$ -Phenyläthan. Sm. 202° (B. 35, 1397 C. 1902 [1] 1096).  
 $C_{16}H_{10}O_3N_2$  5) Di[Phenylamidomethyl]äther-2,2'-Dicarbonsäure (C. 1902 [1] 809).  
 6) 4-Aethoxyphenylamid d. Oxyessig-4-Nitrophenyläthersäure. Sm. 136—157° (D.R.P. 83538). — \*II, 408.  
 $C_{16}H_{10}O_3N_4$  1) Phenylhydrazid d. 4,6-Dinitro-1,3,5-Trimethylbenzol-2-Carbonsäure. Sm. oberh. 300° (B. 34, 1828).  
 $C_{16}H_{10}O_3S$  1) Phenoxylmethyl-2,4-Dimethylphenylketon- $\beta$ -Sulfonsäure. Sm. 138° (B. 35, 3564 C. 1902 [2] 1313).  
 $C_{16}H_{10}O_6N_2$  5) 4,4'-Diamidobiphenyl-3,3'-Di[Oxyessigsäure]. Na<sub>2</sub> (D.R.P. 55506). — \*II, 601.  
 $C_{16}H_{10}NCl$  3) 4-Chlor-1-[2,4,6-Trimethylbenzyliden]amidobenzol. Sm. 74°. HCl (B. 34, 832).  
 $C_{16}H_{10}N_2S$  \*10) 3,5-Dimethyl-1-[4-Amido-3-Methylphenyl]benzthiazol (Dehydrothio-m-Xylidin) (J. pr. [2] 65, 150 C. 1902 [1] 990).  
 14) 3-Thiocarbonyl-1,4,5-Trimethyl-2-[2-Naphtyl]-2,3-Dihydropyrazol. Sm. 169° (A. 320, 32 C. 1902 [1] 666).  
 15) 4- oder 6-Amido-3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 95° (J. pr. [2] 65, 155 C. 1902 [1] 991).  
 16)  $\beta$ -Amido-3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 89° (J. pr. [2] 65, 160 C. 1902 [1] 992).  
 17) 3,5-Dimethyl-1-[6-Amido-3-Methylphenyl]benzthiazol (Isodehydrothio-m-Xylidin). Sm. 121° (J. pr. [2] 65, 151 C. 1902 [1] 991).  
 $C_{16}H_{10}N_2S_2$  4) Di[4-Methylphenylamid] d. Dithiooxalsäure. Sm. 150° (C. 1902 [2] 122).  
 $C_{16}H_{10}N_2S_4$  1) Dimethyläther d. Di[Phenylimidomerkaptomethyl]disulfid. Sm. 123° (Bl. [3] 27, 815 C. 1902 [2] 696).  
 2) Disulfid d. Benzylamidodithioameisensäure (Dibenzylthiuramdisulfid). Sm. 71° (B. 35, 822 C. 1902 [1] 712).  
 3) Disulfid d. Methylphenylamidodithioameisensäure (Dimethyldiphenylthiuramdisulfid). Sm. 198° (B. 35, 820 C. 1902 [1] 712).  
 $C_{16}H_{10}N_3Br$  1) 6-[4-Bromphenyl]diazoamido-1,2,3,4-Tetrahydronaphtalin. Sm. 134° (Soc. 81, 905 C. 1902 [2] 214).  
 $C_{16}H_{10}N_3Br_2$  1)  $\alpha\delta$ -Di[4-Bromphenylhydrazon]butan. Sm. 140—145° (B. 34, 1497).  
 $C_{16}H_{10}N_4S$  5) Aethyläther d. 5-Phenylimido-3-Merkapto-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 214—215° (B. 35, 1713 C. 1902 [2] 29).  
 $C_{16}H_{17}ON$  \*42) Phenyl-[4-Methylphenyl]methylanilid d. Essigsäure. Sm. 129,4—131° (C. 1902 [2] 789).  
 58)  $\gamma$ -Oximido- $\alpha\beta$ -Diphenylbutan. Sm. 134° (M. 22, 661).  
 59)  $\beta$ -Oximido- $\alpha\delta$ -Diphenylbutan. Sm. 120° (M. 22, 665).  
 60) Phenylbenzimidopropyläther. Sd. 177—179°<sub>11</sub> (Soc. 81, 596 C. 1902 [1] 1055).  
 61) N-[2-Methylphenyl]benzimidooäthyläther. Sd. 179—180°<sub>15</sub> (Soc. 81, 596 C. 1902 [1] 1056).

- $C_{16}H_{17}ON$  62) **N-[4-Methylphenyl]benzimidoläthyläther.** *Sd.* 178°<sub>11</sub> (*Soc.* 81, 597 *C.* 1902 [1] 1056).
- 63) **Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[5-Aethyl-2-Pyridyl]äthan.** (2HCl, PtCl<sub>4</sub>) (*B.* 35, 2789 *C.* 1902 [2] 994).
- $C_{16}H_{17}ON_3$  15)  **$\beta$ -Semicarbazon- $\alpha\gamma$ -Diphenylpropan.** *Sm.* 145—146° (*B.* 34, 2076).
- 16)  **$\alpha$ -Phenyläthylidenhydrazid d. 2-Methylphenylamidoameisensäure.** *Sm.* 211—212° (*B.* 34, 4302 *C.* 1902 [1] 304).
- 17) **Amid d.  $\alpha$ -[4-Dimethylamidophenyl]imido- $\alpha$ -Phenyllessigsäure.** *Sm.* 170° u. Zers. (*B.* 35, 3345 *C.* 1902 [2] 1194).
- $C_{16}H_{17}O_2N$  \*12) **4-Dimethylamidodiphenylmethan-2'-Carbonsäure.** *Sm.* 173° (*Bl.* [3] 25, 201).
- 24) **Methyläther d. 4-Oxy-1-Acetylphenylamidomethylbenzol.** *Sm.* 54° (*A.* 315, 141).
- 25)  **$\beta$ -Phenyläther d.  $\alpha$ -Oximido- $\beta$ -Oxy- $\alpha$ -[2,4-Dimethylphenyl]äthan.** *Sm.* 122—123° (*B.* 35, 3564 *C.* 1902 [2] 1313).
- 26) **Benzoat d. 2-Dimethylamido-4-Oxy-1-Methylbenzol.** *Sm.* 46° (*C.* 1902 [2] 377).
- 27) **Phenylamidoformiat d. 4-[ $\alpha$ -Oxyäthyl]-1-Methylbenzol.** *Sm.* 95—96° (*B.* 35, 2247 *C.* 1902 [2] 273).
- 28) **Phenylamid d.  $\alpha$ -Oxybutterphenyläthersäure.** *Sm.* 93—94° (*B.* 34, 1840).
- 29) **Phenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure.** *Sm.* 93°; *Sd.* 210—211°<sub>16</sub> (*B.* 34, 1840).
- 30) **Methylphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure.** *Sm.* 57,5° (*B.* 34, 2126).
- 31) **2-Methylphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure.** *Sm.* 88 bis 90° (*B.* 34, 1844).
- 32) **3-Methylphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure.** *Sm.* 86,5°; *Sd.* 220°<sub>15</sub> (*B.* 34, 1847).
- 33) **4-Methylphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure.** *Sm.* 115° (*B.* 34, 1849).
- $C_{16}H_{17}O_2N_3$  24)  **$\alpha$ -Phenylhydrazon- $\alpha$ -[5-Acetylamido-2-Oxyphenyl]äthan.** *Sm.* 207° (*B.* 34, 125).
- 25) **Aethyläther d.  $\alpha$ -Phenylhydrazon- $\alpha$ -Benzoylamido- $\alpha$ -Oxymethan.** *Sm.* 136° (*Am.* 27, 268 *C.* 1902 [1] 1299).
- 26) **Methylester d. 2',4'-Dimethyldiazamidobenzol-2-Carbonsäure.** *Sm.* 85° (*J. pr.* [2] 63, 282).
- 27) **Aethylester d.  $\beta$ -Phenylhydrazon- $\beta$ -[2-Pyridyl]propionsäure.** *Sm.* 122° *Pikrat* (*B.* 34, 4238 *C.* 1902 [1] 208).
- 28) **Aethylester d.  $\beta$ -Phenylhydrazon- $\beta$ -[4-Pyridyl]propionsäure** (*B.* 34, 4249 *C.* 1902 [1] 209).
- $C_{16}H_{17}O_2Cl$  1)  **$\alpha$ -Phenyläther- $\gamma$ -[4-Methylphenyl]äther d.  $\beta$ -Chlor- $\alpha\gamma$ -Dioxypropan.** *Sm.* 60° (*Soc.* 79, 1223).
- $C_{16}H_{17}O_3N$  16) **4-Aethyläther- $\beta$ -Phenyläther d.  $\alpha$ -Oximido- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]äthan.** *Sm.* 116° (*B.* 35, 3565 *C.* 1902 [2] 1313).
- 17) **4-Dimethylamido-3-Oxydiphenylmethan-2'-Carbonsäure.** *Sm.* 204° (*Bl.* [3] 25, 203).
- 18) **4-Aethoxyphenylamid d. Oxyessigphenyläthersäure.** *Sm.* 130—131° (*D.R.P.* 82105). — \*II, 408.
- $C_{16}H_{17}O_3N_3$  3)  **$\alpha$ -Phenylamid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäure-äthylester.** *Sm.* 123° (*B.* 34, 2335).
- $C_{16}H_{17}O_4N$  4) **2-Oxy-1-[4-Aethoxyphenylamidomethylbenzol-3-Carbonsäure.** *Sm.* 161° (*C.* 1901 [1] 1394).
- 5) **Aethylester d. Oxyessig-1-Acetylamido-2-Naphtyläthersäure.** *Sm.* 128° (*B.* 34, 3202). — \*II, 525.
- $C_{16}H_{17}O_4N_5$  2) **Tetraacetyl-3,5-Diimido-1-Phenyltetrahydro-1,2,4-Triazol.** *Sm.* 157° (*G.* 31 [1] 480).
- 3)  **$\alpha$ -[ $\beta$ -Nitroso- $\beta$ -Phenylhydrazid] d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Aethylester.** *Sm.* 121—122° (*C.* 1901 [1] 935).
- $C_{16}H_{17}O_6N$  2) **Säure (aus Corydinsäure).** *Sm.* 212—215° (*Soc.* 81, 156 *C.* 1902 [1] 356, 596).
- $C_{16}H_{17}NBr_2$  1)  **$\alpha\beta$ -Dibrom- $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[1-Pyridyl]äthan.** *Sm.* 159 bis 160° (*B.* 34, 1893).

- $C_{16}H_{17}NS_2$  2) Methylester d. Dibenzylamidodithioameisensäure. Sm.  $55^\circ$  (C. r. 134, 715 C. 1902 [1] 977).
- $C_{16}H_{17}N_3S$  5) Amid d. 2-Methylphenylamido-2-Methylphenylimidothioessigsäure. Sm.  $139^\circ$  (C. 1901 [1] 68).
- 6) Amid d. 4-Methylphenylamido-4-Methylphenylimidothioessigsäure. Sm.  $143-144^\circ$  (C. 1901 [1] 69).
- $C_{16}H_{18}ON_2$  \*62) 2,5,2',5'-Tetramethylazoxybenzol. Sm.  $110-110,5^\circ$  (A. 316, 290).
- \*63) 2,6,2',6'-Tetramethylazoxybenzol. Sm.  $88,5-89^\circ$  (A. 316, 265).
- 65) Methyläther d. 2-[4-Dimethylamidobenzyliden]amido-1-Oxybenzol. Sm.  $113-114^\circ$  (B. 35, 3574 C. 1902 [2] 1384).
- 66) Methyläther d. 4-[4-Dimethylamidobenzyliden]amido-1-Oxybenzol. Sm.  $138-140^\circ$  (B. 35, 3574 C. 1902 [2] 1384).
- 67) Äthyläther d.  $\alpha$ -Phenylamido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm.  $85^\circ$  (D.R.P. 80568). — \*II, 402.
- 68) 2,3,2',3'-Tetramethylazoxybenzol. Sm.  $116-116,5^\circ$  (A. 316, 288).
- 69) 3,4,3',4'-Tetramethylazoxybenzol. Sm.  $140-140,5^\circ$  (A. 316, 286).
- 70) 3-[ $\beta$ -Oxypropyl]-1,2-Diphenyl-1,2-Dihydro-R-Azimethylen. Sm.  $116-117^\circ$  (J. pr. [2] 64, 162).
- 71) 1,3,5-Trimethyl-2-[2-Oxyphenyl]-2,3-Dihydrobenzimidazol. Sm.  $185^\circ$  (B. 35, 1264 C. 1902 [1] 1062).
- 72) Phylloporphyrin (siehe auch  $C_{32}H_{20}O_2N_4$ ) (B. 34, 1008).
- 73) Amid d.  $\alpha$ -Äthylphenylamido- $\alpha$ -Phenylessigsäure. Sm.  $135^\circ$  (B. 35, 3358 C. 1902 [2] 1196).
- $C_{16}H_{18}ON_4$  8) Phenylsazon d.  $\alpha\beta$ -Dioxybuttersäurealdehyd. Sm.  $171,5^\circ$  (B. 35, 1908 C. 1902 [2] 22).
- $C_{16}H_{18}O_2N_2$  \*13) Diäthyläther d. 4,4'-Dioxyazobenzol. Sm.  $157-159^\circ$  (A. 320, 132).
- 22) Dimethyläther d.  $\alpha$ -[2-Oxyphenyl]imido- $\alpha$ -[2-Oxyphenyl]amidoäthan. Sm.  $99^\circ$  (D.R.P. 80568). — \*II, 388.
- 23) Dimethyläther d.  $\alpha$ -[4-Oxyphenyl]amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm.  $105^\circ$  (D.R.P. 80568). — \*II, 402.
- 24) Monoäthyläther d.  $\alpha$ -[4-Oxyphenyl]amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. HCl (D.R.P. 80568). — \*II, 402.
- 25) Mesoporphyrin. Sm. noch nicht oberh.  $340^\circ$ . HCl (B. 34, 998).
- $C_{16}H_{18}O_2N_4$  \*16) Di[Phenylhydrazid] d. Bernsteinsäure. Sm.  $212-212,5^\circ$  (B. 35, 3690 C. 1902 [2] 1451).
- $C_{16}H_{18}O_2As_2$  1) Diäthyläther d. 4,4'-Dioxyarsenobenzol (A. 320, 300 C. 1902 [1] 920).
- $C_{16}H_{18}O_2Te$  1) Diäthyläther d. Di[4-Oxyphenyl]tellurid. Sm.  $64^\circ$  (A. 315, 11).
- $C_{16}H_{18}O_3N_2$  \*10) Bilirubin (C. 1902 [2] 138; B. 35, 1270 C. 1902 [1] 1168).
- \*11) Hämatoporphyrin (B. 34, 1008).
- $C_{16}H_{18}O_3N_4$  2)  $\alpha$ -Phenylhydrazid d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Äthylester. Sm.  $186^\circ$  (C. 1901 [1] 935).
- $C_{16}H_{18}O_3S$  3) 3-Methyl-6-Isopropylphenylester d. Benzolsulfonsäure. Sm.  $55-56^\circ$  (B. 24, 417). — II, 767; \*II, 464.
- $C_{16}H_{18}O_4N_2$  \*6) Phenylhydrazid d.  $\alpha\beta\gamma$ -Trioxy- $\gamma$ -Phenylbuttersäure. Sm.  $168$  bis  $169^\circ$  u. Zers. (A. 319, 206).
- 9) Äthylester d. 5-Keto-4-Acetyl-3-Methyl-1-Phenyl-4,5-Dihydropyrazol-4-Methylcarbonsäure. Sm.  $79^\circ$  (J. pr. [2] 65, 533 C. 1902 [2] 345).
- 10) Diäthylester d. 1-Phenylpyrazol-4-Carbonsäure-5-Methylcarbonsäure. Sm.  $89-90^\circ$ ; Sd.  $230-235^\circ_{15}$  (A. 316, 33).
- 11) Diäthylester d. 1,4-Benzdiazin-2,3-Di[Methylcarbonsäure]. Sm.  $58,2^\circ$  (Bl. [3] 25, 712).
- $C_{16}H_{18}O_4N_4$  5) p-Dinitro-4,4'-Di[Dimethylamido]biphenyl. Sm.  $231^\circ$  (C. 1901 [2] 1375).
- $C_{16}H_{18}O_5N_2$  5)  $\alpha\beta$ -Imid d.  $\beta$ -Acetylphenylamidopropan- $\alpha\beta\gamma$ -Tricarbonsäure- $\gamma$ -Äthylester. Sm.  $178^\circ$  (B. 35, 2082 C. 1902 [2] 207).
- $C_{16}H_{18}O_6S_2$  1) Dimethyläther d.  $\alpha\beta$ -Di[2-Oxyphenylsulfon]äthan. Sm.  $175^\circ$  (J. pr. [2] 66, 141 C. 1902 [2] 796).
- $C_{16}H_{18}NJ$  1) Jodäthylat d. 4-Benzylidenamido-1-Menthylbenzol. Sm.  $170^\circ$  u. Zers. (B. 34, 836).
- $C_{16}H_{15}N_3Cl$  2) 10-Chlormethylat d. 2,8-Diamido-3,7-Dimethylakridin (B. 34, 4312 C. 1902 [1] 323).

- $C_{16}H_{18}ClJ$  2) 4-tert. Butyldiphenyljodoniumchlorid. Sm. 167°. +  $HgCl_2$ , 2 +  $PtCl_4$  (B. 34, 3675).
- $C_{16}H_{18}BrJ$  2) 4-tert. Butyldiphenyljodoniumbromid. Sm. 157° (B. 34, 3675).
- $C_{16}H_{18}J_2As_2$  1) 2,4,2',4'-Tetramethyljodarsenobenzol. Sm. 89° (A. 320, 333 C. 1902 [1] 922).
- 2) 2,5,2',5'-Tetramethyljodarsenobenzol. Sm. 97° (A. 320, 337 C. 1902 [1] 923).
- $C_{16}H_{18}ON$  9) Aethyläther d. 4-Oxy-1-[2-Methylphenyl]amidomethylbenzol. Sm. 53° (A. 315, 142).
- 10)  $\alpha$ -Oxy- $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[1-Pyridyl]äthan. Sm. 80°. (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$  +  $H_2O$ ), Pikrat (B. 34, 1893).
- $C_{16}H_{18}ON_3$  8) 10-Methyloxyhydrat d. 2,8-Diamido-3,7-Dimethylakridin. Chlorid, Nitrat, Bichromat (B. 34, 4312 C. 1902 [1] 323).
- 9) Amid d.  $\alpha$ -[4-Dimethylamidophenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 154—155° (B. 35, 3344 C. 1902 [2] 1194).
- $C_{16}H_{18}OJ$  2) 4-tert. Butyldiphenyljodoniumhydroxyd (B. 34, 3675).
- $C_{16}H_{18}O_2N_3$  4) Nitrosoderivat d. Verbindung  $C_{16}H_{20}ON_2$ . Sm. 114° (B. 35, 3839 C. 1902 [2] 1462).
- $C_{16}H_{18}O_4N$  11) 1-Phenylamid d. 2-Ketohexahydrobenzol-1,1-Dicarbonsäure-1-Aethylester. Sm. 108° (A. 317, 104).
- $C_{16}H_{18}O_5N_3$  C 57,7 — H 5,7 — O 24,0 — N 12,6 — M. G. 333.
- 1) Dimethylester d. 4-Semicarbazol-1-Phenyl-R-Pentamethylen-2,3-oder 2,5-Dicarbonsäure. Sm. 162—163° (A. 315, 241).
- $C_{16}H_{18}O_5P$  1)  $\beta$ -Phenoxy- $\beta'$ -[4-Methylphenoxy]isopropylphosphorige Säure. Sm. 106—107° (Soc. 79, 1226).
- $C_{16}H_{18}O_{18}N_7$  C 32,2 — H 3,2 — O 48,2 — N 16,4 — M. G. 597.
- 1) Verbindung (aus d. Verb.  $C_{16}H_{21}O_{11}N_7S_3$ ).  $Na_2$  (A. 315, 265).
- $C_{16}H_{20}ON_2$  \*1) Di[2-Dimethylamidophenyl]äther. Sm. 119° (B. 34, 25).
- \*19) Monophenylhydrazon d. Campherchinon. Sm. 187—189° (Soc. 81, 869 C. 1902 [2] 450).
- \*21) Phenylhydrazoncampher. Sm. 155° (180°) (C. 1902 [2] 210).
- 22) Aethyläther d. 4,6-Diamido-5-Oxy-2,3'-Dimethylbiphenyl<sup>p</sup> Sd. 237—243°<sub>55</sub> (B. 27, 2713). — \*II, 540.
- 23) Di[4-Amido-3,5-Dimethylphenyl]äther. Sm. 156,5—157° (A. 316, 305).
- 24) Phenylhydrazon d. Oxyketon  $C_{10}H_{14}O_3$  (aus Campherchinon). Sm. 169—170° (B. 35, 3838 C. 1902 [2] 1462).
- 25) Verbindung (aus 1,2-Diamidobenzol u. d. Oxyketon  $C_{10}H_{14}O_3$ ). Sm. 122—123° (B. 35, 3839 C. 1902 [2] 1462).
- $C_{16}H_{20}ON_4$  \*2) 4,4'-Di[Dimethylamido]azoxybenzol. Sm. 243° (B. 35, 905 C. 1902 [1] 856).
- $C_{16}H_{20}O_4N_2$  7) Diäthylester d.  $\beta$ -Cyan- $\beta$ -Phenylamidopropan- $\alpha$ - $\gamma$ -Dicarbonsäure. Sm. 29° (B. 35, 2081 C. 1902 [2] 207).
- 8)  $\alpha$  $\beta$ -Aethylimid d.  $\beta$ -Phenylamidopropan- $\alpha$  $\beta$  $\gamma$ -Tricarbonsäure- $\gamma$ -Aethylester. Sm. 68° (B. 35, 2082 C. 1902 [2] 207).
- $C_{16}H_{20}O_4S$  3) Benzolsulfonat d. isom. Oxycampher (aus Oxycampheräthyläther). Sm. 111—113° (B. 35, 3818 C. 1902 [2] 1459).
- $C_{16}H_{20}O_6N_2$  C 60,0 — H 6,2 — O 25,0 — N 8,8 — M. G. 320.
- 1) 2-Naphtylhydrazon d. Galaktose. Sm. 189—190° (B. 35, 1842 C. 1902 [2] 109; B. 35, 3083 C. 1902 [2] 1099).
- 2) isom. 2-Naphtylhydrazon d. Galaktose. Sm. 167° (B. 35, 3083 C. 1902 [2] 1099).
- 3) 2-Naphtylhydrazon d. d-Glykose. Sm. 178—179° (B. 35, 1842 C. 1902 [2] 109).
- 4) isom. 2-Naphtylhydrazon d. d-Glykose. Sm. 95° (B. 35, 3084 C. 1902 [2] 1099).
- 5) isom. 2-Naphtylhydrazon d. d-Glykose. Sm. 125° (B. 35, 3084 C. 1902 [2] 1099).
- 6) isom. 2-Naphtylhydrazon d. d-Glykose. Sm. 158—159° (B. 35, 3084 C. 1902 [2] 1099).
- $C_{16}H_{20}O_6Br_2$  1) Diäthylester d.  $\alpha$ -[3,6-Dibrom-4-Oxy-2,5-Dimethylphenyl]äthan- $\beta$  $\beta$ -Dicarbonsäure. Sm. 92—93° (B. 34, 4289 C. 1902 [1] 310).
- $C_{16}H_{20}O_8S_2$  1) Tetraäthylester d. 3,4-Dithiocarbonyl-R-Tetramethylen-1,1,2,2-Tetracarbonsäure. Sm. 179—180° (B. 21, 349; 34, 1045). — I, 900.



- $C_{16}H_{20}O_8S_3$  1) Tetraäthylester d. 2,5-Dithiocarbonyltetrahydrothiophen-3,3,4,4-Tetracarbonsäure. Sm. 139° (B. 33, 2042; 34, 1043).
- $C_{16}H_{20}ClP$  3) Methyläthylphenyl-4-Methylphenylphosphoniumchlorid. 2 +  $PtCl_4$  (A. 315, 61).
- $C_{16}H_{20}ClAs$  2) Methyläthylphenyl-4-Methylphenylarsoniumchlorid. 2 +  $PtCl_4$  (A. 321, 159 C. 1902 [2] 43).
- $C_{16}H_{20}JP$  2) Methyläthylphenyl-4-Methylphenylphosphoniumjodid. Sm. 138° (A. 315, 61).
- $C_{16}H_{20}JAs$  2) Methyläthylphenyl-4-Methylphenylarsoniumjodid. Sm. 150—151° (145°) (A. 321, 158 C. 1902 [2] 43).
- $C_{16}H_{21}ON$  7) 5-Keto-6-Phenylamidomethylen-1,1,3-Trimethylhexahydrobenzol (C. 1901 [1] 1024).
- 8) Phenylamid d. Pulegensäure. Sm. 123° (Bl. [3] 27, 310 C. 1902 [1] 1223).
- $C_{16}H_{21}O_2N$  13) Phenylamidoformiat d. 2-[ $\alpha$ -Oxyäthyl]-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 69° (A. 324, 93 C. 1902 [2] 1202).
- $C_{16}H_{21}O_5N$  \*8) Monopiperidid d.  $\beta$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 120° (A. 320, 93).
- 12) Aethylester d. 3-Benzoylamidohexahydrobenzol-1-Carbonsäure. Sm. 105—111° (A. 319, 331 C. 1902 [1] 350).
- 13) Eugenolester d. Hexahydropyridin-1-Carbonsäure. Sm. 93,5—94°; Sd. 239°<sub>18</sub> (Bl. [3] 27, 453 C. 1902 [2] 66).
- 14) isom. Phenylmonamid d. d-Camphersäure. Sm. 196° (B. 26 [2] 87; C. r. 116, 121). — \*II, 218.
- $C_{16}H_{21}O_8N_3$  C 63,4 — H 6,9 — O 15,8 — N 13,9 — M. G. 303.
- 1) Santoninsemicarbazone. Sm. 232° u. Zers. (G. 31 [2] 310).
- $C_{16}H_{21}O_5N$  7) Diäthylester d. Benzol-1-Carbonsäure-2-Propionylamidoessigsäure. Sm. 64—66° (B. 35, 1686 C. 1902 [1] 1362).
- $C_{16}H_{21}O_6N$  5) Triäthylester d. Phenylamidoessigsäure-2,N-Dicarbonsäure. Sm. 48° (50°); Sd. oberh. 360° (D.R.P. 126962 C. 1902 [1] 83; D.R.P. 127648 C. 1902 [1] 337).
- $C_{16}H_{21}O_7N$  3) Diäthylester d. N-Aethoxycarbonylbenzol-1-Carbonsäure-2-Amidoessigsäure. Sm. 48—50° (B. 35, 1686 C. 1902 [1] 1362).
- $C_{16}H_{22}ON_2$  7) Phenylhydrazon d. isom. Oxycampher (aus Oxycampheräthyläther). Sm. 111—113° (B. 35, 3817 C. 1902 [2] 1459).
- $C_{16}H_{22}O_2N_2$  6) Phenylhydrazon d. Thujaketonsäure (aus Thujamenthon). Sm. 144 bis 146° (A. 323, 361 C. 1902 [2] 1206).
- 7) Phenylhydrazon d. Isothujaketonsäure (aus Isothujon). Sm. 144 bis 146° (A. 323, 338 C. 1902 [2] 1204).
- 8) Aethylester d. 2-Phenylhydrazon-1-Methylhexahydrobenzol-1-Carbonsäure. Sm. 82° (A. 317, 107).
- $C_{16}H_{22}O_5N_2$  3)  $\beta$ -Amid d.  $\beta$ -Phenylamidopropan- $\alpha\beta\gamma$ -Tricarbonsäure- $\alpha\gamma$ -Diäthylester. Sm. 126° (B. 35, 2082 C. 1902 [2] 207).
- $C_{16}H_{22}O_7N_4$  C 50,3 — H 5,7 — O 29,3 — N 14,7 — M. G. 382.
- 1) Verbindung (aus Isopuron). Sm. 159° u. Zers. (B. 34, 274).
- $C_{15}H_{22}O_8S_2$  1) Tetraäthylester d.  $\beta\gamma$ -Dithiocarbonylbutan- $\alpha\alpha\delta\delta$ -Tetracarbonsäure. Sm. 103° (B. 34, 1048).
- $C_{16}H_{22}O_{13}N_4$  \*1) Tetrasparsäure (A. 319, 68).
- $C_{16}H_{22}NJ$  2) Triäthyl-2-Naphtylammoniumjodid. Sm. 174° (Bl. [3] 27, 885 C. 1902 [2] 991).
- $C_{16}H_{23}O_2N$  6) 6-Isopropyl-3-Methylphenylester d. Hexahydropyridin-1-Carbonsäure. Sd. 204—206° (Bl. [3] 27, 453 C. 1902 [2] 66).
- $C_{16}H_{23}O_3N$  15) Isoamylester d.  $\alpha$ -Oximido-2,4,6-Trimethylphenylessigsäure. Fl. (B. 29, 837). — \*II, 973.
- 16) 4-Methylphenylmonamid d. mal. Heptan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 179—180° (C. 1902 [2] 107).
- $C_{16}H_{23}O_4N$  6) Isoamylester d. Acetyl-4-Aethoxyphenylamidoameisensäure. Sm. 47—48° (D.R.P. 69328). — \*II, 404.
- $C_{16}H_{24}ON_2$  3)  $\alpha$ -Cyklogeraniolennitrolbenzylamin. Sm. 106° (C. 1902 [1] 1295; A. 324, 103 C. 1902 [2] 1200).
- $C_{16}H_{24}O_2S_2$  1) Aethylester d.  $\beta\beta$ -Dimerkapto- $\alpha\alpha$ -Dimethylbutterdiäthyläthersäure. Fl. (B. 34, 2669).

- $C_{16}H_{24}O_4N_2$  3) Di[Diäthylamidoformiat] d. 1,3-Dioxybenzol. Sm. 35—36°; Sd. 270°<sub>0,55</sub> (A. 317, 200).
- $C_{16}H_{24}O_4N_2$  2) Verbindung (aus Harn) (H. 31, 524).  
 $C_{16}H_{24}O_8N_8$  C 42,1 — H 5,2 — O 28,1 — N 24,6 — M. G. 456.
- $C_{16}H_{25}ON$  1) Disemicarbazon d. Verb.  $C_{14}H_{18}O_8N_2$  (C. 1902 [1] 28).
- 7) 5-Oxy-6-Phenylamidomethyl-1,1,3-Trimethylhexahydrobenzol. Sm. 68—70°; Sd. 221°<sub>0,5</sub> (C. 1901 [1] 1025).
- 8) Phenylamid d.  $\beta\zeta$ -Dimethylheptan- $\gamma$ -Carbonsäure. Sm. 105° (A. 318, 160).
- $C_{16}H_{25}O_2N$  4) norm. Nonylester d. Phenylamidoameisensäure. Sm. 62—64° (J. pr. [2] 62, 532). — \*II, 179.
- $C_{16}H_{25}O_6N$  5) Triäthylester d.  $\epsilon$ -Cyan- $\beta$ -Methylpentan- $\beta\gamma\delta$ -Tricarbonsäure. Sd. 230—240°<sub>40</sub> (Soc. 81, 58 C. 1902 [1] 409).  
 $C_{16}H_{26}O_{10}N$  C 48,1 — H 6,3 — O 40,1 — N 3,5 — M. G. 391.
- 1) Pentaacetat d.  $\zeta$ -Amido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (P. d. Glykamin). HCl (C. r. 134, 292 C. 1902 [1] 565).
- $C_{16}H_{25}N_3S$  1) 3-[ $\beta$ -Phenylthioureido]-1,2,2,5,5-Pentamethyltetrahydropyrrol. Sm. 146° (A. 322 111 C. 1902 [2] 127).
- $C_{16}H_{26}O_2N_2$  C 79,1 — H 9,3 — O 11,5 — N 10,1 — M. G. 278.
- 1) Aethylamid d. Aethylcamphorformenaminicarbonsäure. Sm. 148° (C. 1901 [2] 545).
- $C_{16}H_{26}O_6S_2$  1)  $\beta\gamma\gamma$ -Tri[Aethylsulfon]- $\alpha$ -Phenylbutan. Sm. 154° (B. 34, 1401).
- $C_{16}H_{27}O_6Cl$  1) Triäthylester d.  $\gamma$ -Chlor- $\beta\beta$ -Dimethylpentan- $\alpha\gamma\delta$ -Tricarbonsäure. Fl. (Soc. 79, 790).
- $C_{16}H_{30}N_4S_2$  1) Verbindung (aus Acetaldehyd, Piperidin u. Rubcanwasserstoff). Sm. 90° (C. 1899 [2] 1025).  
 $C_{16}H_{31}ON_3$  C 68,3 — H 11,0 — O 5,7 — N 14,9 — M. G. 281.
- $C_{16}H_{32}O_2S_2$  1) Azid d. Palmitinsäure. Sm. 49° (J. pr. [2] 64, 430 C. 1902 [1] 24).
- 1) Aethyl ester d.  $\beta\beta$ -Dimerkaptobutterdiisocamyläthersäure. Fl. (B. 34, 2658).
- $C_{16}H_{32}O_5S_2$  1)  $\delta\delta$ -Diamylsulfon- $\beta$ -Keto- $\gamma$ -Methylpentan. Fl. (B. 35, 502 C. 1902 [1] 637).
- $C_{16}H_{33}O_6S_2$  1) Aethyl ester d.  $\beta\beta$ -Di[Isoamylsulfon]buttersäure. Fl. (B. 34, 2658).
- $C_{16}H_{33}N_6Cl_2$  1) R-Ditrimethylendi[Piperidylumchlorid]. +  $PtCl_4$ , +  $2AuCl_3$  (B. 35, 3053 C. 1902 [2] 1127).
- $C_{16}H_{33}ON$  \*2) Amid d. Palmitinsäure. Sm. 104—105° (J. pr. [2] 64, 435 C. 1902 [1] 24).
- $C_{16}H_{33}ON_2$  4) Hydrazid d. Palmitinsäure. Sm. 111° HCl (J. pr. [2] 64, 422 C. 1902 [1] 24).
- $C_{16}H_{34}N_2Cl_2$  1) Di[Chlormethylat] d. Di[Dimethylamido]phellandren. 2 +  $PtCl_4$  (A. 324, 276 C. 1902 [2] 1254).
- $C_{16}H_{34}N_2J_2$  1) Di[Jodmethylat] d. Di[Dimethylamido]phellandren. Sm. 91—94° (A. 324, 280 C. 1902 [2] 1254).
- 2) Di[Jodmethylat] d. isom. Di[Dimethylamido]phellandren. Sm. 192° u. Zers. (A. 324, 275 C. 1902 [2] 1254).
- 16 IV —
- $C_{16}H_6O_2N_2Br_4$  2) 4,5,6,7-Tetrabrom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]benzimidazol. Sm. 270° u. Zers. (C. 1902 [2] 942).
- $C_{16}H_8O_5N_2Br_2$  \*1) m-Dibromindigo (D.R.P. 128575 C. 1902 [1] 551).
- 2) 4,6-Dibrom-2-[1,3-Diketo-2,3-Dihydro-2-Indenyl]benzimidazol. Sm. noch nicht bei 370° (C. 1902 [2] 941).
- 3) Verbindung (aus Indigotin) (C. 1902 [1] 936).
- $C_{16}H_9ONS$  1) Phenonaphtazthion. Sm. 176° (A. 322, 55 C. 1902 [2] 224).
- $C_{16}H_9ON_2Br$  1) 6-Brom-5-Oxy- $\alpha$ - $\beta$ -Naphtophenazin. Zers. bei 230°. Na +  $2H_2O$ , Ag (B. 34, 1053).
- $C_{16}H_9O_3N_2Br$  2) Bromindigo (D.R.P. 128575 C. 1902 [1] 551).
- $C_{16}H_{10}O_2NBr$  5) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[ $\beta$ -Brom-3,4-Dioxyphenyl]akryl-3,4-Methylenäthersäure. Sm. 179° (B. 34, 3083).
- $C_{16}H_{10}O_3NJ_3$  1) 5-Jod-3-Nitrophenyl-1-Naphtyljodoniumjodid. Sm. 89° u. Zers. (B. 34, 3413).
- $C_{16}H_{10}O_4N_2Cl_4$  1) 3,4,5,6-Tetrachlor-1-[2- oder 3-Nitroso-4-Dimethylamido-benzoyl]benzol-2-Carbonsäure +  $H_2O$ . Sm. 129—130° (145° wasserfrei) (Bl. [3] 25, 745).

- $C_{16}H_{10}O_3N_2Cl_4$  1) 3,4,5,6-Tetrachlor-1-[2- oder 3-Nitro-4-Dimethylamido-benzoyl]benzol-2-Carbonsäure. Sm. 147° (*Bl.* [3] 25, 746).
- $C_{16}H_{10}O_3NCl$  1) Verbindung (aus 4-Pseudonitro-1,2,3-Trioxo-9,10-Anthrachinon). Zers. bei 110° (*M.* 22, 727).
- $C_{16}H_{10}O_3N_2S_2$  \*1) Indigo-3,3'-Disulfonsäure.  $Na_2$  (*B.* 34, 1862).
- $C_{16}H_{11}ONBr_2$  3) Indigo-4,4'-Disulfonsäure.  $Na_2$  (*B.* 34, 1862).
- $C_{16}H_{11}ONBr_2$  2) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[2-Dibrom-4-Oxyphenyl]akrylmethyläthersäure. Sm. 186° (*B.* 34, 3088).
- $C_{16}H_{11}ONS$  1)  $\alpha$ -Naphthophenazthioniumhydroxyd. Pikrat (*A.* 322, 44 *C.* 1902 [2] 223).
- 2)  $\beta$ -Naphthophenazthioniumhydroxyd. Pikrat (*A.* 322, 48 *C.* 1902 [2] 223).
- $C_{16}H_{11}ON_2Cl$  4) 2-Oxy-1-[2-Chlorphenylazo]naphtalin. Sm. 163° (*C.* 1902 [2] 938).
- 5) 2-Oxy-1-[3-Chlorphenylazo]naphtalin. Sm. 158° (*C.* 1902 [2] 938).
- $C_{16}H_{11}ON_2Br$  \*2) 2-Oxy-1-[4-Bromphenylazo]naphtalin. Sm. 170° (*Soc.* 81, 1205 *C.* 1902 [2] 894).
- \*3) 4-Oxy-1-[4-Bromphenylazo]naphtalin. Sm. 237—238° (*Soc.* 81, 176 *C.* 1902 [1] 354).
- 6) 2-Oxy-1-[2-Bromphenylazo]naphtalin. Sm. 165° (*Soc.* 81, 1206 *C.* 1902 [2] 894).
- 7) 2-Oxy-1-[3-Bromphenylazo]naphtalin. Sm. 172° (*Soc.* 81, 1206 *C.* 1902 [2] 894).
- 8) 4-Oxy-1-[2-Bromphenylazo]naphtalin. Sm. 183° (*Soc.* 81, 175 *C.* 1902 [1] 354).
- 9) 4-Oxy-1-[3-Bromphenylazo]naphtalin. Sm. 211° (*Soc.* 81, 176 *C.* 1902 [1] 354).
- 10) 2-Brom-4-Oxy-1-Phenylazonaphtalin. Sm. 196° (*Soc.* 81, 174 *C.* 1902 [1] 354).
- $C_{16}H_{11}O_2N_2Br$  4) 3-Brom-2-[3-Amidophenyl]amido-1,4-Benzochinon. Sm. 194 bis 195° (*B.* 34, 1052).
- 5) 3-Brom-2-[4-Amidophenyl]amido-1,4-Benzochinon. Sm. noch nicht bei 350° (*B.* 34, 1052).
- 6) Phenyläther d. 5-Brom-4-Oxy-3-Keto-2-Phenyl-2,3-Dihydro-1,2-Diazin. Sm. 115° (*B.* 34, 1013).
- $C_{16}H_{11}O_2N_4Cl$  1) 2-Nitro-1-[1-Chlor-2-Naphtyl]amidodiazobenzol. Zers. bei 194° (*Soc.* 81, 1380 *C.* 1902 [2] 1189).
- 2) 3-Nitro-1-[1-Chlor-2-Naphtyl]amidodiazobenzol. Sm. 137—142° (*Soc.* 81, 1380 *C.* 1902 [2] 1189).
- 3) 4-Nitro-1-[1-Chlor-2-Naphtyl]amidodiazobenzol. Sm. 197—198° u. Zers. (*Soc.* 81, 99 *C.* 1902 [1] 186, 416).
- $C_{16}H_{11}O_3NCl_4$  \*1) 3,4,5,6-Tetrachlor-1-[4-Dimethylamidobenzoyl]benzol-2-Carbonsäure. Sm. 211° (*Bl.* [3] 25, 599).
- $C_{16}H_{11}O_3N_3J_2$  1) 5-Jod-3-Nitrophenyl-1-Naphtyljodoniumhydrat. Salze siehe (*B.* 34, 3413).
- $C_{16}H_{11}O_{15}N_7S$  1) O-Propyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 151—152° (*Soc.* 81, 439 *C.* 1902 [1] 989).
- $C_{16}H_{12}ONBr$  3) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[3-Brom-4-Oxyphenyl]akrylmethyläthersäure. Sm. 102° (*B.* 34, 3089).
- $C_{16}H_{12}O_2NCl$  3) 4-Chlor-1-Dimethylamido-9,10-Anthrachinon. Sm. 168—170° (*D.R.P.* 136777 *C.* 1902 [2] 1374).
- $C_{16}H_{12}O_2NCl_3$  1) Chlorid d. 3,4-Dichlor-4'-Dimethylamidodiphenylketon-2-Carbonsäure (*Bl.* [3] 25, 509).
- $C_{16}H_{12}O_2N_2Cl_4$  1) Di[Phenylamid] d. Tetrachlorbernsteinsäure? Sm. 245° (*G.* 32 [2] 21 *C.* 1902 [2] 893).
- $C_{16}H_{12}O_2N_2S$  2) 2-Phenylsulfondiazonaphtalin. Zers. bei 96° (*B.* 35, 270 *C.* 1902 [1] 526).
- $C_{16}H_{12}O_2N_2S_2$  \*5) 2-Phenylthiosulfondiazonaphtalin (*B.* 35, 269 *C.* 1902 [1] 526).
- $C_{16}H_{12}O_4N_2S$  \*2) 2-Oxy-1-Phenylazonaphtalin-1'-Sulfonsäure + 4H<sub>2</sub>O.  $Na$  + 2 $\frac{1}{2}$ (5)H<sub>2</sub>O,  $Mg$  + 5H<sub>2</sub>O,  $Ca$  + 5H<sub>2</sub>O,  $Fe$  + 5H<sub>2</sub>O, Amliunsalz (*Bl.* [3] 25, 863).
- $C_{16}H_{12}O_5N_4S$  2) 6-Nitro-2-4-Amidophenylazo]naphtalin-8-Sulfonsäure (*A.* 323, 122 *C.* 1902 [2] 799).

- $C_{16}H_{12}O_6N_2S$  1) 4-Nitro-1-[4-Oxyphenyl]amidonaphtalin-6-Sulfonsäure (C. 1901 [2] 799).
- $C_{16}H_{13}ONS_2$  1) Benzoylimidomethylenäther d.  $\alpha\beta$ -Dimerkapto- $\alpha$ -Phenyläthan (Benzoylimidomethylenphenyläthylendisulfid). Sm. 135° (C. 1902 [1] 1401).
- $C_{16}H_{13}ON_2Cl$  1) Cinnamylidenhydrazid d. 3-Chlorbenzol-1-Carbonsäure (J. pr. [2] 64, 328).
- $C_{16}H_{13}O_2NCl_4$  \*) 1) 3,4,5,6-Tetrachlor-1-[4-Dimethylamidobenzyl]benzol-2-Carbonsäure. Sm. 215° (Bl. [3] 25, 601).
- $C_{16}H_{13}O_2NS_3$  1) Methylenester d. Benzolthiolcarbonsäure u. Benzoylamido-dithioameisensäure. Sm. 138—139° (C. 1902 [1] 1400).
- $C_{16}H_{13}O_3N_2Cl$  4)  $\beta$ -Chlor- $\gamma$ -Phenylimido- $\alpha$ -Phenylamidopropen- $\alpha$ -Carbonsäure (Anilmukoanilidochlorsäure). Zers. 150° (B. 34, 515).
- $C_{16}H_{13}O_3N_2Br$  1)  $\beta$ -Brom- $\gamma$ -Phenylimido- $\alpha$ -Phenylamidopropen- $\alpha$ -Carbonsäure (Anilmukoanilidobromsäure). Zers. bei 135—140°. Ag, Anilinsalz (B. 34, 513, 516).
- $C_{16}H_{13}O_3N_3Br_2$  1) 3,5-Dibrom-3,5-Dicyan-2,6-Diketo-4-Methyl-4-[ $\beta$ -Phenyl-äthyl]hexahydropyridin. Sm. 163—165° (C. 1901 [1] 581).
- $C_{16}H_{13}O_3NS$  6) 1-Phenylamidonaphtalin-4-Sulfonsäure. Anilinsalz (B. 34, 3185).  
7) 1-Phenylamidonaphtalin-8-Sulfonsäure. Na (D.R.P. 70349). — \*II, 345.  
8) 2-Phenylamidonaphtalin-6-Sulfonsäure (C. 1901 [2] 670).  
9) 2-Amido-1-Naphtylester d. Benzolsulfonsäure. Sm. 118—119° (C. 1900 [1] 544). — \*II, 506.
- $C_{16}H_{13}O_3NS_2$  1) Benzoyldithiocarbaminsäurephenylacetat. Sm. 127—129° (Am. 26, 200).
- $C_{16}H_{13}O_3N_3Br$  2)  $\beta$ -Brom- $\gamma$ -Phenylhydrazon- $\alpha$ -Oxycrotonphenyläthersäure (Mucophenoxylbromsäurephenylhydrazon). Sm. 157° u. Zers. (B. 34, 1012).
- $C_{16}H_{13}O_4N_2S$  5) 1,3-Di[Acetylamido]phenazthion (A. 322, 59 C. 1902 [2] 224).
- $C_{16}H_{13}O_4NS$  1) 6-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 114248; C. 1901 [2] 670; D.R.P. 134029 C. 1902 [2] 868). — \*II, 515.  
2) 7-Phenylamido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 75014, 80417, 99339; C. 1901 [2] 670). — \*II, 515.
- $C_{16}H_{13}O_4N_2Cl_3$  3)  $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[Phenylamido]äthan-2,2'-Dicarbonsäure. Sm. 165° (C. 1902 [2] 939).
- $C_{16}H_{13}O_5NS$  1) 7-[4-Oxyphenyl]amido-1-Oxynaphtalin-3-Sulfonsäure (C. 1901 [2] 670).  
2)  $\beta$ -Dimethylamido-9,10-Anthrachinon-1-Sulfonsäure (D.R.P. 136777 C. 1902 [2] 1373).  
3)  $\beta$ -Dimethylamido-9,10-Anthrachinon-2-Sulfonsäure (D.R.P. 136777 C. 1902 [2] 1373).  
4) 3-Dimethylamido-1-Oxy-9,10-Anthrachinon-4-Sulfonsäure? (Bl. [3] 25, 212).
- $C_{16}H_{14}ON_2Cl_2$  1)  $\alpha$ -Acetyl- $\alpha$ -[2-Chlorbenzyl]- $\beta$ -[2-Chlorbenzyliden]hydrazin. Sm. 110° (B. 34, 852).
- $C_{16}H_{14}ON_2S$  \*) 2) [Phenylbenzylamido]-4-Keto-4,5-Dihydrothiazol. Sm. 124 bis 125° (C. 1902 [2] 578; Am. 28, 146 C. 1902 [2] 794).  
6) 2-Phenylimido-4-Keto-3-Phenyl-3,4,5,6-Tetrahydro-1,3-Thiazin. Sm. 106°. — \*II, 201.
- $C_{16}H_{14}O_2NCl$  4) Chlorimid d. 1-Methylbenzol-4-Carbonsäure. Sm. 129° (C. 1902 [2] 360).
- $C_{16}H_{14}O_2N_2Cl_2$  3) Amid d. 3,4-Dichlor-4'-Dimethylamidodiphenylketon-2-Carbonsäure. Sm. 220° (Bl. [3] 25, 507).
- $C_{16}H_{14}O_2N_2S$  3) 4- oder 6-Nitro-3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 146° (J. pr. [2] 65, 154 C. 1902 [1] 991).  
4) 4- oder 6-Nitro-3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 152° (J. pr. [2] 65, 153 C. 1902 [1] 991).
- $C_{16}H_{14}O_3Cl_2Se$  \*) 1) Di[Benzoylmethyl]selenidchlorid (Dichlorselenoacetophenon) (A. 314, 285).
- $C_{16}H_{14}O_3Br_2Se$  1) Di[Benzoylmethyl]selenidbromid. Sm. 102° (A. 314, 284).
- $C_{16}H_{14}O_3J_2Se$  1) Di[Benzoylmethyl]selenidjodid (Dijodselenoacetophenon). Sm. 112° (A. 314, 285).
- $C_{16}H_{14}O_4N_2Br_4$  1) Diäthyläther d. 3,5,3',5'-Tetrabrom-4,4'-Dioxyazoxybenzol. Sm. 163° (B. 35, 1132 C. 1902 [1] 915).

- $C_{10}H_{11}O_2N_2S$  7) 2-[4-Amidophenyl]amidonaphtalin-6-Sulfonsäure (C. 1901 [2] 670).
- $C_{10}H_{14}O_4N_3Br$  1) 3,5-Di[Acetylamido]phenoxazoniumbromid (A. 322, 26 C. 1902 [2] 222).
- $C_{10}H_{14}O_4NBr$  2) Dimethyläther d. 10-Brom-10-Nitro-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 139—140° u. Zers. (A. 323, 241 C. 1902 [2] 803).
- $C_{10}H_{14}O_4NBr$  1) 6-Brom-3,4-Dioxy-1-N-Phenylbenzaldoxim-3,4-Dimethyläther-2-Carbonsäure (Bromopiansäure-N-Phenylloxim) (B. 34, 1019).
- $C_{16}H_{13}ONBr_2$  1) Verbindung (aus Dibromantholdibromid u. Anilin). Sm. 82° (J. pr. [2] 52, 204). — \*II, 448.
- $C_{16}H_{13}ONS_2$  1) 1,2-Diphenyl-3-Aethylimidoxanthid. Sm. 98—98,5° (B. 35, 2471 C. 1902 [2] 441).
- 2) 3-Methylbenzylester d. Benzoylamidodithioameisensäure. Sm. 93—94° (Am. 26, 203).
- $C_{16}H_{15}O_2NCl_2$  2) 3,6-Dichlor-5-[4-Methylphenyl]amido-2-Isopropyl-1,4-Benzochinon. Sm. 187° (B. 35, 1505 C. 1902 [1] 1211).
- $C_{16}H_{15}O_2NBr_2$  2) 3,6-Dibrom-5-[3-Methylphenyl]amido-2-Isopropyl-1,4-Benzochinon. Sm. 171° (B. 35, 1503 C. 1902 [1] 1211).
- 3) 3,6-Dibrom-5-[4-Methylphenyl]amido-2-Isopropyl-1,4-Benzochinon. Sm. 195° (B. 34, 1559).
- $C_{16}H_{15}O_2NS$  1) 2-Methylphenylamid d. Benzoylmerkaptoessigsäure. Sm. 141 bis 142° (Am. 28, 148 C. 1902 [2] 794).
- $C_{16}H_{15}O_2N_2S$  2) p-Nitro-3,5-Dimethyl-1-[6-Amido-3-Methylphenyl]benzthiazol. Sm. 192° (J. pr. [2] 65, 158 C. 1902 [1] 992).
- $C_{16}H_{15}O_2NBr_2$  3) Methyläther d. 3,6-Dibrom-5-[4-Oxyphenyl]amido-2-Isopropyl-1,4-Benzochinon. Sm. 196° (B. 35, 1503 C. 1902 [1] 1211).
- $C_{16}H_{16}ON_2S$  10) Methyläther d. Benzoylimido-4-Methylphenylamidomerkapto-methan (Benzoyl-p-Tolylthiolmethylpseudothioharnstoff). Sm. 130° (Am. 26, 412).
- 11) Aethyläther d. Benzoylimidophenylamidomerkapto-methan (Benzoylpseudoäthylphenylthioharnstoff). Sm. 87—88° (C. 1901 [2] 276).
- $C_{16}H_{16}O_2NCl$  4) Aethylester d.  $\alpha$ -Phenyl-4-Chlorphenylamidoessigsäure. Sm. 87,8° (B. 30, 2763). — \*II, 820.
- $C_{16}H_{16}O_2NBr$  2)  $\beta$ -Bromäthyläther d. 4'-Acetylamido-4-Oxybiphenyl. Sm. 202° (D. R. P. 85988). — \*II, 538.
- $C_{16}H_{16}O_2N_2S$  \*7) Phenylamid d. Dimethylsulfid- $\alpha,\alpha'$ -Dicarbonsäure. Sm. 166 bis 167° (J. pr. [2] 66, 188 C. 1902 [2] 933).
- $C_{16}H_{16}O_2N_2S_2$  \*2) Phenylamid d. Dimethyldisulfid- $\alpha,\alpha'$ -Dicarbonsäure. Sm. 160 bis 161°. Cu<sub>2</sub> (J. pr. [2] 66, 185 C. 1902 [2] 933).
- $C_{16}H_{16}O_4N_2S$  4) 2,4-Di-[Acetylamido]diphenylsulfon. Sm. 197° (B. 34, 1152).
- $C_{16}H_{16}O_4N_2As_2$  1) p-Dinitro-2,5,2',5'-Tetramethylarsenobenzol. Sm. 165° (A. 320, 338 C. 1902 [1] 923).
- $C_{16}H_{17}ON_2S$  8) Methyläther d. Phenylimido [ $\beta$ -Acetyl- $\beta$ -Phenylhydrazido]-merkapto-methan. Sm. 139—140° (B. 34, 343).
- $C_{16}H_{17}O_2N_3S$  3) Aethylester d.  $\alpha,\beta$ -Diphenylthioharnstoff- $\alpha$ -Amidoameisensäure. Sm. 145° (B. 34, 2327).
- $C_{16}H_{17}O_2N_3S_2$  1) Aethyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkapto-methan. Sm. 75° (B. 14, 1125).
- 2) isom. Aethyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkapto-methan. Sm. 42° (B. 34, 1125).
- $C_{16}H_{19}ONBr$  1) Dimethylphenylphenacylammoniumbromid. Sm. 125—128° (B. 35, 775 C. 1902 [1] 720).
- $C_{16}H_{19}O_2N_4S$  3)  $\alpha$ -Phenylhydrazid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Thiocarbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 138° (B. 34, 2329).
- $C_{16}H_{19}O_6N_2S_2$  \*1) 2,4,2',4'-Tetramethylazobenzol-5,5'-Disulfonsäure (B. 34, 2854).
- $C_{16}H_{19}ON_2Br$  1) 4-Bromphenylhydrazon d. Campherchinon. Sm. 215—216° (Soc. 79, 380).
- $C_{16}H_{19}O_4NS$  1) r- $\alpha$ -[2-Naphtylsulfon]amido- $\gamma$ -Methylvaleriansäure. Sm. 145 bis 146° (B. 35, 3782 C. 1902 [2] 1469).
- 2) act.  $\alpha$ -[2-Naphtylsulfon]amido- $\gamma$ -Methylvaleriansäure + H<sub>2</sub>O. Sm. 68° (B. 35, 3783 C. 1902 [2] 1469).
- $C_{16}H_{19}O_4NS_2$  4) Di[4-Methylphenylsulfonmethyl]amin. Sm. 158—160° (J. pr. [2] 63, 170).



- $C_{16}H_{20}O_2N_2S$  1) 3-Dimethylamido-4-Methylphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 124° (D.R.P. 135016 C. 1902 [2] 1166).
- $C_{16}H_{21}ON_2J$  1) Jodäthylat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 206° (B. 35, 3086 C. 1902 [2] 1116).
- $C_{16}H_{21}O_2NS$  \*1) Phenylamid d. Campher- $\beta$ -Sulfonsäure. Sm. 119° (Soc. 81, 1448 C. 1902 [2] 1465).
- $C_{16}H_{22}O_2N_2S$  2) Äthylester d. 3-[ $\beta$ -Phenylthioureido]hexahydrobenzol-1-Carbonsäure. Sm. 149° (A. 319, 332 C. 1902 [1] 351).
- $C_{16}H_{24}ON_2S$  2) Äthyläther d. Benzoylimidodipropylamidomerkaptomethan (Benzoyldipropylthioläthylpseudothioharnstoff). Sd. 226—229°<sub>17</sub> (Am. 26, 413).
- $C_{16}H_{24}O_2NCl$  1) Chlorbenzylat d. 1-Piperidyllessigsäureäthylester. Zers. bei 193 bis 194° (A. 318, 106).
- $C_{16}H_{24}O_2NBr$  1) Brombenzylat d. 1-Piperidyllessigsäureäthylester. Sm. 133 bis 134° u. Zers. (192—193°) (A. 318, 106; B. 35, 181 C. 1902 [1] 429).
- $C_{16}H_{24}O_2NJ$  \*1) Jodbenzylat d. 1-Piperidyllessigsäureäthylester. Zers. bei 193 bis 194° (B. 35, 180 C. 1902 [1] 428; B. 35, 1075 C. 1902 [1] 938).
- $C_{16}H_{26}O_{11}N_{12}S_2$  1) Verbindung (aus Isodialursäure u. Thioharnstoff) (A. 315, 261).

## — 16 V —

- $C_{16}H_{10}O_2NClJ_2$  1) 5-Jod-3-Nitrophenyl-1-Naphtyljodoniumchlorid. 2 +  $PtCl_4$  (B. 34, 3413).
- $C_{16}H_{10}O_2NBrJ_2$  1) 5-Jod-3-Nitrophenyl-1-Naphtyljodoniumbromid. Sm. 168° (B. 34, 3413).
- $C_{16}H_{10}O_9N_3ClS_2$  1) 2-Oxy-1-[2-Chlor-4-Nitrophenylazo]naphtalin-6,8-Disulfonsäure.  $Na_2$  (C. 1902 [1] 752).
- $C_{16}H_{14}O_2N_3ClS$  1) 1,3-Di[Acetylamid]phenazthioniumchlorid. +  $FeCl_3$  (A. 322, 58 C. 1902 [2] 224).
- $C_{16}H_{18}O_3N_3ClS$  1) p-Chlor-p-Diäthylamidoazobenzol-4-Sulfonsäure +  $2H_2O$  (aus 3-Chlor-1-Diäthylamidobenzol). Ba +  $1\frac{1}{2}H_2O$  (B. 35, 3543 C. 1902 [2] 1504).
- $C_{16}H_{20}O_3NBrS$  1) Phenylamid d.  $\alpha$ -Bromcampher- $\beta$ -Sulfonsäure. Sm. 106° (C. 1901 [2] 418; Soc. 81, 1452 C. 1902 [2] 1465).
- 2) 4-Bromphenylamid d. Campher- $\beta$ -Sulfonsäure. Sm. 167° (C. 1901 [2] 417; Soc. 81, 1449 C. 1902 [2] 1465).

**C<sub>17</sub>-Gruppe.**

- $C_{17}H_{14}$  4) 2,5-Diphenylisocyclopentenin. Sm. 211°; Sd. oberh. 300° (Bl. [3] 25, 849).
- $C_{17}H_{18}$  \*2) isom. 1,2-Diphenyl-R-Pentamethylenp Sm. 108°; Sd. noch nicht bei 340°<sub>12</sub> (Soc. 79, 1022).
- $C_{17}H_{20}$  5)  $\alpha\beta$ -Di[p-Methylphenyl]propan. Sd. 312—314° (J. r. 27, 302). — \*II, 116.
- 6)  $\beta$ -[2-Naphtyl]- $\epsilon$ -Methyl- $\alpha$ -Hexen. Sd. 175—178°<sub>10</sub>. Pikrat (Bl. [3] 25, 499).
- $C_{17}H_{36}$  \*1) Heptadekan. Sd. 288—289°<sub>760</sub> u. Zers. (Am. 28, 176 C. 1902 [2] 1081).

## — 17 II —

- $C_{17}H_{10}O_7$  C 62,6 — H 3,0 — O 34,3 — M. G. 326.
- 1) 2,3- oder 3,4-Anhydrid d. 5-Benzoxyl-1-Methylbenzol-2,3,4-Tricarbonsäure. Sm. 187—189° (B. 35, 2919 C. 1902 [2] 1042).
- $C_{17}H_{11}N$  7) 3,4-Naphtakridin. Sm. 131° (B. 35, 2670 C. 1902 [2] 650).
- $C_{17}H_{12}O_2$  13) Pheno- $\alpha$ -Naphtoxanthidrol (B. 34, 3303).
- 14) Pheno- $\alpha$ -Naphtoxanthoxoniumhydrat. Salze siehe (B. 34, 3304).
- $C_{17}H_{12}O_3$  16) Methylenäther d. 1-Keto-2-[3,4-Dioxybenzyliden]2,3-Dihydroinden. Sm. 179—180° (B. 34, 414).
- 17) 1,8-Dioxy-2-Benzoylnaphtalin (Phenyl-1,8-Dioxy-2-Naphtylketon). Sm. 121—122° (C. 1901 [2] 1287; D.R.P. 129035 C. 1902 [1] 688).
- 18) 1-Keto-3-Phenylinden-2-Methylcarbonsäure. Sm. 167,5°. Ba +  $3H_2O$ , Ag (B. 35, 1729 C. 1902 [2] 54).
- 19) Laktone d. 3-Keto-1-Oxy-1-Phenyl-2,3-Dihydroinden-2-Methylcarbonsäure. Sm. 119—120° (B. 35, 1735 C. 1902 [2] 55).

- $C_{17}H_{12}O_3$  20) Phenylester d. 3-Oxynaphtalin-2-Carbonsäure. Sm. 128—129° (*B.* 34, 4143 *C.* 1902 [1] 315).
- 21) 1-Naphtylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 83° (*D.R.P.* 38973, 43713). — \*II, 888.
- $C_{17}H_{11}O_4$  16) Acetat d. 2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 97° (*B.* 34, 1693).
- 17) 1-[1-Oxy-2-Naphtoyl]benzol-2-Carbonsäure (*D.R.P.* 134985 *C.* 1902 [2] 1085).
- $C_{17}H_{12}O_3$  14) 3',4'-Methylenäther-5-Methyläther d. 5-Oxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 175° (176°) (*B.* 29, 1755; 30, 302; 32, 311, 313).
- $C_{17}H_{12}N_2$  \*1) 2-Phenyl- $\beta$ -Naphtimidazol. (2HCl,  $PtCl_4 + 2H_2O$ ), (HCl,  $AlCl_3$ ), Benzoat (*B.* 34, 935).
- 6) Amidophenakridin. HCl (*D.R.P.* 130360 *C.* 1902 [1] 1032).
- 7) 8-Methyl- $\alpha\beta$ -Naphtophenazin. Sm. 208,5°; subl. 240°<sub>13</sub> (*B.* 34, 2449).
- $C_{17}H_{13}N$  \*5) 2-[ $\beta$ -Phenyläthenyl]chinolin. Sm. 98—99° (*A.* 318, 85).
- 9) Benzyliden-1-Phenylpyrrol (oder  $C_{21}H_{25}N_2$ ). Sm. 265,5° (*B.* 35, 1655 *C.* 1902 [1] 1358).
- $C_{17}H_{13}Br$  2) 1-[ $\alpha$ -Brombenzyl]naphtalin. Fl. (*C.* 1902 [2] 789).
- $C_{17}H_{14}O$  \*1) 1-[ $\alpha$ -Oxybenzyl]naphtalin. Sm. 86,5° (*C.* 1902 [2] 1199).
- \*6)  $\gamma$ -Keto- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadien.  $2 + Al_2Br_6$  (*Am.* 27, 253 *C.* 1902 [1] 1292; *B.* 35, 1190 *C.* 1902 [1] 1004).
- $C_{17}H_{14}O_2$  \*13) Lakton d.  $\beta$ -Oxy- $\alpha\delta$ -Diphenyl- $\alpha$ -Buten- $\delta$ -Carbonsäure. (L. d. Dihydrocornicularsäure). Sm. 116—117° (*A.* 319, 223 *C.* 1902 [1] 108).
- \*14) Lakton d. Isodihydrocornicularsäure. Sm. 102—105° (*A.* 319, 215 Anm.).
- 23) Methyläther d. 7-Oxy-4-Methylen-2-Phenyl-1,4-Benzpyran.  $\alpha$ -Modif. Sm. 120—125°;  $\beta$ -Modif. Sm. 261—263° (*B.* 34, 1792).
- 24) Lakton d.  $\gamma$ -Oxy- $\alpha\delta$ -Diphenyl- $\alpha$ -Buten- $\alpha$ -Carbonsäure. Sm. 91° (*A.* 319, 217 *C.* 1902 [1] 108).
- 25) isom. Lakton d. Dihydrocornicularsäure. Sm. 128,5° (*A.* 319, 225 *C.* 1902 [1] 109).
- 26) Äthylester d. Phenanthren-9-Carbonsäure. Sm. 61° (*B.* 35, 2726 *C.* 1902 [2] 643).
- 27) Propionat d. 3-Oxyphenanthren. Sm. 95° (*A.* 321, 301 *C.* 1902 [2] 59).
- $C_{17}H_{14}O_3$  \*5) Äthyläther d. 7-Oxy-2-Phenyl-1,4-Benzpyron (*B.* 34, 3727 *C.* 1902 [1] 46).
- 27) 3,4-Methylenäther d.  $\gamma$ -Keto- $\delta$ -Phenyl- $\alpha$ -[3,4-Dioxyphenyl]- $\alpha$ -Buten. Sm. 100—102° (*M.* 22, 758).
- 28) Methylenäther d.  $\gamma$ -Keto- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[3,4-Dioxyphenyl]-propen. Sm. 130° (*B.* 35, 1070 *C.* 1902 [1] 929).
- 29) 2'-Methyläther d. 1-Keto-2-[3,4-Dioxybenzyliden]-2,3-Dihydroinden. Sm. 187° (*B.* 34, 414).
- 30) Äthyläther d. 5-Oxy-1,3-Diketo-2-Phenyl-2,3-Dihydroinden. Sm. 172° (*B.* 34, 3738 *C.* 1902 [1] 39).
- 31) Äthyläther d. 6- oder 7-Oxy-3-Phenyl-2,1-Benzpyron. Sm. 144 bis 145° (*B.* 34, 3742 *C.* 1902 [1] 40).
- 32) Äthyläther d. 2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 118° (*B.* 34, 1692).
- 33) 3-Oxyphenanthrenäthyläther-10-Carbonsäure. Sm. 206° (*A.* 322, 154 *C.* 1902 [2] 282).
- 34) Lakton d.  $\alpha$ -Oxy- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthen- $\alpha$ -Carbonsäure (Benzal- $\beta$ -Aethoxyphtalid). Sm. 133—134° (*B.* 34, 3737 *C.* 1902 [1] 39).
- 35) Lakton d.  $\gamma$ -Oxy- $\gamma$ -Methoxyl- $\beta\gamma$ -Diphenylpropen- $\alpha$ -Carbonsäure. Sm. 102,5° (*A.* 319, 175 *C.* 1902 [1] 105).
- 36) Lakton d.  $\alpha$ -Oxy- $\alpha\gamma$ -Diphenylpropan- $\beta$ -Ketocarbonsäure. Sm. 137° (*B.* 35, 1937, 1942 *C.* 1902 [2] 119).
- 37) Lakton d. isom.  $\alpha$ -Oxy- $\alpha\gamma$ -Diphenylpropan- $\beta$ -Ketocarbonsäure. Sm. 134° (*B.* 35, 1937, 1942 *C.* 1902 [2] 119).
- 38) Methyläther d.  $\gamma$ -Keto- $\beta\gamma$ -Diphenylpropen- $\alpha$ -Carbonsäure (*M.* d. Desylenessigsäure). Sm. 89° (*A.* 319, 177 *C.* 1902 [1] 105).
- $C_{17}H_{14}O_5$  \*12) Diacetat d. 2,4-Dioxydiphenylketon. Sm. 120° (*B.* 35, 992 Anm. *C.* 1902 [1] 870).

- $C_{17}H_{14}O_5$  25) 2',7-Dimethyläther d. 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 154—156° (*B.* 34, 1456).
- $C_{17}H_{14}O_6$  6) 5,7-Dioxy-3-Aethyl-2-[3,4-Dioxyphenyl]-1,4-Benzpyron ( $\alpha$ -Aethyl-luteolin). Sm. 286—287° (*B.* 34, 3720 *C.* 1902 [1] 45).
- $C_{17}H_{14}O_7$  \*) 2) Rhamnazin (*See.* 81, 469 *C.* 1902 [1] 1014).
- 4) Di[2-Methylcarboxyphenylester] d. Kohlensäure. Sm. 109° (*D.R.P.* 58129). — \*II, 890.
- $C_{17}H_{14}N_2$  18) Chinoxalinderivat d. 1,2-Diamidofluoren (*B.* 35, 3288 *C.* 1902 [2] 1263).
- $C_{17}H_{14}Cl_2$  1)  $\gamma\gamma$ -Dichlor- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Butadien. Sm. 78° (*B.* 34, 2695).
- $C_{17}H_{15}N$  13) 2-[Methylphenylamido]naphtalin (Methylphenyl-2-Naphtylamin). Sm. 52—53° (*D.R.P.* 96402). — \*II, 333.
- $C_{17}H_{15}N_3$  14) 2-[4-Amido-3-Methylphenylazo]naphtalin. Sm. 175° (*D.R.P.* 131860 *C.* 1902 [2] 83).
- 15) 3-Phenylazo-5-Methyl-2-Phenylpyrrol. Sm. 120° (*C.* 1901 [1] 1323).
- 16) 6-Phenylamido-5-Methyl-3-Phenyl-1,2-Diazin (Methylphenylanilido-pyridazin). Sm. 173—174° (*B.* 34, 4233 *C.* 1902 [1] 213).
- 17) Methyl-N-Aethylindophenazin. Sm. 213°. *HCl* (*B.* 34, 1114).
- 18) Nitril d.  $\alpha\delta$ -Di[4-Amidophenyl]- $\alpha\gamma$ -Butadien- $\alpha$ -Carbonsäure. Sm. 196° (*B.* 34, 3109).
- $C_{17}H_{16}O$  3)  $\gamma$ -Keto- $\delta$ -Phenyl- $\alpha$ -[4-Methylphenyl]- $\alpha$ -Buten. Sm. 115° (*M.* 22, 751).
- 4) 6-Benzoyl-1,2,3,4-Tetrahydronaphtalin. Sd. 375° u. Zers. (*B.* 35, 2513 *C.* 1902 [2] 451).
- $C_{17}H_{16}O_2$  22) Methyläther d.  $\gamma$ -Keto- $\delta$ -Phenyl- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 98 bis 100° (*M.* 22, 755).
- 23) Aethyläther d.  $\alpha$ -Oxy- $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpropen (Ae. d.  $\alpha$ -Oxy-benzylidenacetophenon). Fl. (*C.* 1902 [1] 37).
- 24)  $\alpha\beta$ -Diphenyl- $\alpha$ -Buten- $\delta$ -Carbonsäure ( $\gamma\delta$ -Diphenylallylessigsäure). Sm. 106°.  $Ca + 1\frac{1}{2}(2)H_2O$ ,  $Ba + 2H_2O$  (*B.* 34, 4177 *C.* 1902 [1] 255).
- 25) Lakton d.  $\gamma$ -Oxy- $\gamma\delta$ -Diphenylvaleriansäure ( $\gamma\delta$ -Diphenylvalerolakton). Sm. 59—60° (*B.* 34, 4177 *C.* 1902 [1] 255).
- $C_{17}H_{16}O_3$  \*) 6) 4-Benzoat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 70,5 bis 71° (*B.* 35, 3188 *C.* 1902 [2] 1254).
- \*10)  $\alpha$ -Keto- $\alpha\gamma$ -Diphenylbutan- $\delta$ -Carbonsäure. Sm. 152—153,5° (*B.* 34, 656).
- \*12)  $\gamma$ -Keto- $\alpha\delta$ -Diphenylbutan- $\alpha$ -Carbonsäure. Sm. 134° (*A.* 319, 218 *C.* 1902 [1] 108).
- 37) 4-Methyläther- $\beta$ -Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 106° (*B.* 35, 3555 *C.* 1902 [2] 1311).
- 38) Aethyläther d. 6- oder 7-Oxy-3-Phenyl-3,4-Dihydro-2,1-Benzpyron. Sm. 83—84° (*B.* 34, 3744 *C.* 1902 [1] 40).
- 39)  $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthen- $\alpha^2$ -Carbonsäure. Sm. 172° (*B.* 34, 3741 *C.* 1902 [1] 39).
- 40)  $\beta$ -Oxy- $\beta$ -Phenylakryl-2,4-Dimethylphenyläthersäure. Sm. 121 bis 122° u. Zers. *Ag* (*See.* 79, 1187).
- 41) Säure (aus d. Lakton d.  $\beta$ -Oxy- $\alpha\gamma$ -Diphenylpropan- $\alpha$ -Ketocarbonsäure). Sm. 161° (*B.* 35, 1941 *C.* 1902 [2] 120).
- 42) Säure (aus d. Lakton d.  $\gamma$ -Oxy- $\alpha\gamma$ -Diphenylpropen- $\beta$ -Ketocarbonsäure). Sm. 143° (*B.* 35, 1941 *C.* 1902 [2] 120).
- 43) Säure (aus d. Säure  $C_{17}H_{16}O_3$  vom Sm. 143°). Sm. 97° (*B.* 35, 1941 *C.* 1902 [2] 120).
- 44) Säure (aus d. Säure  $C_{17}H_{16}O_3$  vom Sm. 161°). Sm. 128° (*B.* 35, 1941 *C.* 1902 [2] 120).
- 45) Lakton d.  $\alpha$ -Oxy- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 87—88° (*B.* 34, 3740 *C.* 1902 [1] 39).
- 46)  $\beta\delta$ -Lakton d.  $\beta\delta$ -Dioxy- $\alpha\gamma$ -Diphenylbutan- $\delta$ -Dicarbonsäure. Sm. 153° (*B.* 35, 1939, 1942 *C.* 1902 [2] 119).
- 47)  $\beta\delta$ -Lakton d. isom.  $\beta\delta$ -Dioxy- $\alpha\gamma$ -Diphenylbutan- $\delta$ -Carbonsäure. Sm. 113° (*B.* 35, 1939, 1942 *C.* 1902 [2] 119).
- 48)  $\alpha\gamma$ -Lakton d.  $\alpha\gamma$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Benzylpropan- $\alpha$ -Carbonsäure. Sm. 110° (*B.* 35, 1940, 1942 *C.* 1902 [2] 119).
- 49)  $\alpha\gamma$ -Lakton d. isom.  $\alpha\gamma$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Benzylpropan- $\alpha$ -Carbon-säure. Sm. 109—110° (*B.* 35, 1940, 1942 *C.* 1902 [2] 120).

- $C_{17}H_{15}O_3$  50)  $\alpha\gamma$ -Lakton d. isom.  $\alpha\gamma$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Benzylpropan- $\alpha$ -Carbonsäure. Sm. 155° (B. 35, 1940, 1942 C. 1902 [2] 119).  
 51)  $\alpha\gamma$ -Lakton d. isom.  $\alpha\gamma$ -Dioxy- $\alpha$ -Phenyl- $\beta$ -Benzylpropan- $\alpha$ -Carbonsäure. Sm. 155—156° (B. 35, 1940, 1942 C. 1902 [2] 120).  
 52) Aethylester d. 1-[ $\gamma$ -Keto- $\alpha$ -Butenyl]naphtalin-8-Carbonsäure. Fl. (M. 22, 820).  
 53) Acetat d. Oxydimethyldiphenylketon  $C_{15}H_{11}O_3$ . ( $CH_3:CH_3:OH = 1:2:4$ ). Sm. 74—74,5° (G. 32 [1] 501 C. 1902 [2] 581).  
 54) Acetat d. Oxydimethyldiphenylketon  $C_{15}H_{11}O_3$ . ( $CH_3:CH_3:OH = 1:4:2$ ). Sm. 62—62,5° (G. 32 [1] 496 C. 1902 [2] 581).  
 55) Acetat d. 7-Oxy-2-Phenyl-1,4-Benzpyran. Sm. 112—114° (B. 34, 3896 C. 1902 [1] 122).
- $C_{17}H_{16}O_4$  23)  $\alpha$ -Keto- $\alpha$ -(4- oder 5-Aethoxyphenyl)- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 95—96° (B. 34, 3738 C. 1902 [1] 39).  
 24)  $\beta$ -Keto- $\alpha$ -(4- oder 5-Aethoxyphenyl)- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 172—173° (B. 34, 3742 C. 1902 [1] 40).  
 25)  $\alpha\gamma$ -Lakton d.  $\alpha\beta\gamma$ -Trioxy- $\alpha\beta$ -Diphenylvaleriansäure. Sm. 138° (A. 319, 221 C. 1902 [1] 108).  
 26) Methylenester d. 1-Methylbenzol-2-Carbonsäure. Sm. 61—62° (C. r. 134, 717 C. 1902 [1] 975).  
 27) Methylenester d. 1-Methylbenzol-3-Carbonsäure. Sm. 55—56°; Sd. 242—244°<sub>15</sub> (C. r. 134, 717 C. 1902 [1] 975).  
 28) Methylenester d. 1-Methylbenzol-4-Carbonsäure. Sm. 104° (C. r. 134, 717 C. 1902 [1] 975).  
 29) Methylenester d. Phenyllessigsäure. Sd. 245—247°<sub>15</sub> (C. r. 134, 717 C. 1902 [1] 975).  
 30) Dibenzylester d. Malonsäure. Sd. 234,5°<sub>14</sub> u. Zers. (B. 35, 3457 C. 1902 [2] 1304).  
 31) Diacetat d. 2,4'-Dioxydiphenylmethan. Sm. 70° (J. pr. [2] 65, 314 C. 1902 [1] 1350).
- $C_{17}H_{16}O_5$  \*1) Lobarsäure (J. pr. [2] 64, 110).  
 11) Decarbonsol. Sm. 209°. Na + 3H<sub>2</sub>O (A. 324, 184 C. 1902 [2] 1512).
- $C_{17}H_{16}O_7$  3) Umbilicarinsäure. Sm. 180° (J. pr. [2] 63, 548).
- $C_{17}H_{16}N_2$  \*4) 2-Amidobenzyl-1-Naphtylamin. Sm. 129° (Bl. [3] 27, 1058 C. 1902 [2] 1509).  
 \*5) 2-Amidobenzyl-2-Naphtylamin. Sm. 110—111°. 2HCl (Bl. [3] 27, 1059 C. 1902 [2] 1510).  
 15) 4-Amidobenzyl-1-Naphtylamin. Fl. 2HCl (Bl. [3] 27, 1062 C. 1902 [2] 1510).  
 16) 4-Amidobenzyl-2-Naphtylamin. Fl. 2HCl (Bl. [3] 27, 1064 C. 1902 [2] 1510).  
 17) 1-Aethyl-2,4-Diphenylimidazol. Sm. 194° (B. 34, 1831).  
 18) Nitril d.  $\beta$ -[2,4-Dimethylphenyl]amido- $\alpha$ -Phenylakrylsäure. Sm. 130° (B. 35, 2506 C. 1902 [2] 438).
- $C_{17}H_{16}N_4$  \*2) 4-Phenylazo-3,5-Dimethyl-1-Phenylpyrazol. Sm. 62° (B. 35, 2189 C. 1902 [2] 357).  
 5) 2-Methyl-3-[ $\alpha$ -Phenylhydrazonäthyl]-1,4-Benzdiazin. Sm. 178° (B. 35, 3312 C. 1902 [2] 1109).
- $C_{17}H_{17}N$  \*7) d-2-Benzylidenamido-1,2,3,4-Tetrahydronaphtalin. Sm. 58—60° (Soc. 79, 83).  
 8) 5-Methyl-1-Aethyl-2-Phenylindol. Sm. 72° (D.R.P. 128660 C. 1902 [1] 611).
- $C_{17}H_{17}N_3$  4) Anilantipyryn (Anilopyryn). Sm. 120° (B. 34, 724).  
 5) Nitril d.  $\alpha$ -(4-Methylphenyl)imido- $\alpha$ -(4-Dimethylamidophenyl)-essigsäure. Sm. 154—155° (B. 35, 3573 C. 1902 [2] 1384).
- $C_{17}H_{17}N_5$  3) Di[2-Methylphenyl]formoguanamin. Sm. 255° (B. 34, 2600).  
 4) Di[4-Methylphenyl]formoguanamin. Sm. 222° (B. 34, 2601).  
 5) 3-[ $\alpha$ -Phenylhydrazonäthyl]-5-Methyl-1-Phenyl-1,2,4-Triazol. Sm. 133,5° (J. pr. [2] 64, 237).
- $C_{17}H_{18}O$  \*4)  $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 8—10°; Sd. 352° (B. 34, 1999, 2000).
- $C_{17}H_{18}O_2$  \*1) 1,2-Dioxy-1,2-Diphenyl-R-Pentamethylen. Sm. 103—104,5°. Acetat (Soc. 79, 1018).  
 22)  $\alpha\alpha$ -Diphenyl- $\beta$ -Methylpropan- $\beta$ -Carbonsäure. Sm. 134—135° (A. 318, 182).

- $C_{17}H_{18}O_3$  11)  $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 117° (B. 34, 3741 C. 1902 [1] 39).  
 12) 4-tert. Butylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 66 bis 68° (D.R.P. 68111). — \*II, 888.  
 13) 3-Methyl-6-Isopropylphenylester d. 2-Oxybenzol-1-Carbonsäure (Salicylat d. Thymol). Fl. (D.R.P. 43713). — \*II, 888.  
 14) Benzoeat d. Oxyketon  $C_{10}H_{14}O_2$  (aus Campherchinon). Sm. 79° (B. 35, 3838 C. 1902 [2] 1462).
- $C_{17}H_{18}O_4$  7) Trimethyläther d.  $\beta$ -Oxy- $\alpha$ -Keto- $\alpha$ - $\beta$ -Di[2-Oxyphenyl]äthan. Sm. 59—60° (Soc. 79, 672).  
 8)  $\alpha$ -Oxy- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbon-säure (B. 34, 3740 C. 1902 [1] 39).  
 9)  $\beta$ -Oxy- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbon-säure (Aethoxytoluylenhydratcarbonsäure). Fl. (B. 34, 3743 C. 1902 [1] 40).  
 10) 4-Aethoxybenzoeat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 119—120° (D.R.P. 57941). — \*II, 906.
- $C_{17}H_{18}O_5$  6)  $\alpha$ - $\beta$ -Trioxy- $\alpha$ - $\delta$ -Diphenylvaleriansäure. Ba, Ag (A. 319, 222 C. 1902 [1] 108).  
 7) Di[2-Aethoxyphenylester] d. Kohlensäure. Sm. 81° (D.R.P. 72806). — \*II, 550.  
 8) Carbonat d. 3,4-Dioxy-1-Methylbenzol-3-Methyläther. Sm. 145° (D.R.P. 58129). — \*II, 550.  
 9) Carbonat d. 3,4-Dioxy-1-Methylbenzol-4-Methyläther. Sm. 135° (D.R.P. 72806). — \*II, 550.  
 10)  $\beta$ -Benzoeat d.  $\alpha$ - $\beta$ -Dioxy- $\gamma$ -Keto- $\delta$ - $\delta$ -Dimethyl- $\beta$ -Hepten- $\gamma$ -Carbon-säure- $\alpha$ - $\gamma$ -Lakton. Sm. 96° (A. 322, 362 C. 1902 [2] 735).  
 11) Verbindung (aus Brasilinsäure). Sm. 141—142° (Soc. 81, 1035 C. 1902 [2] 748).
- $C_{17}H_{18}O_6$  \*3) Decarbonsnin.  $NH_4$ ,  $(NH_4)_2$  (A. 324, 144 C. 1902 [2] 1511).  
 $C_{17}H_{18}N_2$  8)  $\gamma$ -Phenylhydrazon- $\alpha$ -Phenyl- $\alpha$ -Penten. Sm. 101° (B. 35, 968 C. 1902 [1] 870).  
 9)  $\gamma$ -Phenylhydrazon- $\alpha$ -Phenyl- $\beta$ -Methyl- $\alpha$ -Buten. Sm. 105° (B. 35, 970 C. 1902 [1] 871).  
 10)  $\alpha$ -Benzyliden- $\beta$ -2,4,5-Trimethylbenzylidenhydrazin (B. 35, 3238 C. 1902 [2] 1045).  
 11) 2-Diäthylamidoakridin. Fl. Pikrat (B. 35, 2672 C. 1902 [2] 650).
- $C_{17}H_{18}N_4$  \*1) 1,2-Di[Phenylhydrazon]-R-Pentamethylen. Sm. 146° (A. 317, 64).  
 $C_{17}H_{18}N$  \*2) 2,6-Diphenylhexahydropyridin. Sm. 71°; Sd. 206—207°<sub>15</sub>. HCl, HBr, HJ,  $H_2SO_4$ , Pikrat, Bitartrat (B. 34, 1618).  
 7) Allyldibenzylamin. Sd. 168—170°<sub>10</sub>. HCl, (2HCl,  $PtCl_4$ ), HBr, HJ (B. 35, 1284 C. 1902 [1] 1094).  
 8) Iso-2,6-Diphenylhexahydropyridin. Sd. 204—205°<sub>15</sub>. HCl, HBr, HJ,  $H_2SO_4$ , Pikrat (B. 34, 1617).  
 9)  $\alpha$ -Phenyl- $\beta$ -[1,2,3,4-Tetrahydro-2-Chinoly]äthan. Sm. 229—230°<sub>20</sub> (B. 35, 1958 C. 1902 [2] 131).
- $C_{17}H_{18}N_3$  4) 6-[4-Methylphenyl]diazoamido-1,2,3,4-Tetrahydronaphtalin. Sm. 107° (Soc. 81, 902 C. 1902 [2] 214).  
 5) Nitril d.  $\alpha$ -Methylphenylamido- $\alpha$ -[4-Dimethylamidophenyl]essig-säure. Sm. 102—103° (B. 35, 3575 C. 1902 [2] 1384).  
 6) Nitril d.  $\alpha$ -[4-Methylphenyl]amido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 127—128° (B. 35, 3573 C. 1902 [2] 1384).
- $C_{17}H_{20}O$  9)  $\alpha$ -Oxy- $\alpha$ -Diphenylpentan. Sm. 80—81° u. Zers. (B. 35, 1066 C. 1902 [1] 929).  
 10) 2-Oxy- $\beta$ -Benzyl-4-Isopropyl-1-Methylbenzol. Sd. 235—240°<sub>50</sub> (G. 31 [1] 469).  
 11) Benzylidenisothujon. Sm. 83° (J. 323, 349 C. 1902 [2] 1205).
- $C_{17}H_{20}O_2$  9)  $\alpha$ -Dioxy- $\alpha$ -Diphenylpentan. Sm. 84—88° (Soc. 79, 1020).  
 10) Diäthyläther d. 2,4'-Dioxydiphenylmethan. Sm. 60° (J. pr. [2] 65, 314 C. 1902 [1] 1351).  
 11) d- $\alpha$ -Benzoylcampher. Sm. 87—88° (Soc. 79, 997).  
 12) d-l-Oxy-2-Benzoylcamphen. Sm. 89°. Na, Fe, Cu (Soc. 79, 994).
- $C_{17}H_{20}O_4$  \*4) Acetat d. Desmotroposantonin. Sm. 156° (G. 32 [1] 344 C. 1902 [1] 1406).



- $C_{17}H_{20}O_4$  14) Di[2-Methoxyphenyläther] d.  $\alpha\beta$ -Dioxypropan. Sm. 99° (*J.* 1890, 1197). — \*II, 547.
- 15) Acetylderivat d. Lakton  $C_{15}H_{18}O_3$  (aus Artemisin). Sm. 205—206° (*C.* 1902 [2] 369).  
C 63,7 — H 6,2 — O 30,0 — M. G. 320.
- $C_{17}H_{20}O_6$  1) Di[2,4,6-Trioxo-3,5-Dimethylphenyl]methan. Sm. 252° u. Zers. (*A.* 318, 306).  
2) Methyläther d. Cedron. Sm. 298° (*M.* 20, 785). — \*II, 623.
- $C_{17}H_{20}O_7$  3) Tutin. Sm. 208—209° (*Soc.* 79, 123).  
 $C_{17}H_{20}O_9$  C 55,4 — H 5,4 — O 39,1 — M. G. 368.
- 1) Monoäthylester d. Diacetylpiscidinsäure. Sm. 149—151° (*Ann.* 25, 396).
- $C_{17}H_{20}N_2$  10) Di[2,4-Dimethylphenyl]formamidin. Sm. 131°. HCl, (2 HCl, PtCl<sub>4</sub>), Pikrat (*B.* 35, 2500 *C.* 1902 [2] 436).  
11) 1,3-Di[3-Methylphenyl]tetrahydroimidazol. Sm. 100—101° (*B.* 34, 1510).  
12) 1,3-Di[4-Methylphenyl]tetrahydroimidazol. Sm. 176° (*B.* 34, 1509).
- $C_{17}H_{20}J_2$  1) 4-Isoamylidiphenyljodoniumjodid. Sm. 118° (*B.* 34, 3685).  
 $C_{17}H_{21}N$  6) 1-Benzylidenamidocamphen. Sm. 63° (*Soc.* 79, 650).  
 $C_{17}H_{21}N_3$  \*) Auramin (*B.* 35, 2615 *C.* 1902 [2] 593).  
\*)  $\alpha$ -Imidodi[3-Methylamido-4-Methylphenyl]methan? (Auramin G). Sm. 119—120° (*B.* 35, 913 *C.* 1902 [1] 811).
- $C_{17}H_{21}P$  1) Diäthyl-4-Benzylphenylphosphin. Sd. 235°<sub>20</sub> (*A.* 315, 46).  
2) Äthylphenyl-2,4,5-Trimethylphenylphosphin. Sd. 352°. (2HCl, PtCl<sub>4</sub>), + HgCl<sub>2</sub> (*A.* 315, 74).
- $C_{17}H_{22}O$  \*) d-Benzylidenmenthon. Sm. 115° (*C. r.* 133, 41).  
4) l-Benzylidenmenthon. Fl. (*C. r.* 133, 43).  
5) isom. Benzylidenmenthon. Sm. 47° (*C. r.* 134, 1438 *C.* 1902 [2] 280).  
6) isom. Benzylidenmenthon. Sm. 51° (*C. r.* 134, 1437 *C.* 1902 [2] 280).  
7) Benzylidenthujamenthon. Sd. 180—182°<sub>11</sub> (*A.* 323, 356 *C.* 1902 [2] 1206).
- $C_{17}H_{22}O_2$  \*) d-Benzylidencampholsäure (*C. r.* 133, 79).  
 $C_{17}H_{22}O_4$  5) Diacetat d.  $\gamma\epsilon$ -Dioxy- $\alpha$ -Phenyl- $\delta\delta$ -Dimethyl- $\alpha$ -Penten. Fl. (*M.* 22, 1123 *C.* 1902 [1] 471).  
 $C_{17}H_{22}O_5$  8) Diäthylester d.  $\delta$ -Keto- $\alpha$ -Phenylpentan- $\alpha\gamma$ -Dicarbonsäure (D. d.  $\alpha$ -Phenyl- $\alpha'$ -Acetylglutarsäure). Sd. 189°<sub>11</sub> (*B.* 34, 4175 *C.* 1902 [1] 254).  
 $C_{17}H_{22}O_6$  3) Triacetat d.  $\beta\delta\epsilon$ -Trioxo- $\beta$ -Phenylpentan. Fl. (*J. pr.* [2] 64, 552).  
 $C_{17}H_{22}O_7$  \*) Diäthylester d.  $\beta\delta$ -Diketo- $\delta$ -[2-Furanyl]heptan- $\gamma\epsilon$ -Dicarbonsäure (*B.* 35, 393 *C.* 1902 [1] 569).  
4) Acetoxyldehydroisophotosantonsäure. Sm. 251° (*G.* 32 [1] 321 *C.* 1902 [1] 1405).
- $C_{17}H_{22}N_2$  \*) 6) Di[4-Dimethylamidophenyl]menthan. Sm. 89°. Pikrat (*B.* 34, 19, 2037; *C. r.* 135, 347 *C.* 1902 [2] 798).  
14)  $\delta\delta$ -Di[Phenylamido]- $\beta$ -Methylbutan. + SO<sub>2</sub> (*A.* 316, 134).  
15) Di[2,4-Dimethylphenylamido]methan. Sm. 127—128° (2HCl, PtCl<sub>4</sub>) (*Soc.* 81, 284 *C.* 1902 [1] 527).
- $C_{17}H_{23}N$  6) Base (aus Oxymethylenecampheranilid). Sm. 38°; Sd. 211—212°<sub>20</sub> (*C.* 1901 [1] 1025).
- $C_{17}H_{23}N_3$  \*) 1) Leukauramin. Sm. 135° (*B.* 35, 366; *B.* 35, 375 *C.* 1902 [1] 588).  
2) 2-Amido-4,4'-Di[Dimethylamido]diphenylmethan. Sm. 96° (*B.* 34, 4314 *C.* 1902 [1] 323).  
5)  $\alpha$ -Amidodi[3-Methylamido-4-Methylphenyl]methan? (Leukauramin G). Sm. 207—208° (*B.* 35, 914 *C.* 1902 [1] 811).
- $C_{17}H_{24}O_2$  \*) 4) Benzoat d. l-Menthol (*C.* 1902 [2] 1238; *B.* 35, 2474 *C.* 1902 [2] 441).  
 $C_{17}H_{24}O_3$  \*) 12) d-Phenylxyhomocampholsäure (*C. r.* 133, 79).  
 $C_{17}H_{24}O_5$  \*) 1) Acetylisophotosantonsäure. Sm. 183° (*G.* 32 [1] 312 *C.* 1902 [1] 1404).  
7)  $\alpha\gamma$ -Diacetat d.  $\alpha\gamma$ -Dioxy- $\alpha$ -[4-Oxyphenyl]- $\beta\beta$ -Dimethylpropan-4-Äthyläther. Sm. 70° (*M.* 22, 504).
- $C_{17}H_{24}O_7$  2) Triäthylester d. Ketotrimethyldicyklopentantricarbonsäure. Sd. 219°<sub>20</sub> (*Soc.* 79, 786).
- $C_{17}H_{24}O_9$  \*) Syringin (*C.* 1901 [2] 726).  
 $C_{17}H_{24}N_4$  2) 4-Methylamido-4'-Dimethylamido-6,2'-Diamido-3-Methyldiphenylmethan. Sm. 155° (D.R.P. 133709 *C.* 1902 [2] 615).

- $C_{17}H_{24}N_4$  3)  $\alpha$ -Citralamido- $\alpha$ -Phenylguanidin.  $HNO_3$ , Pikrat (*G.* 31 [1] 533).  
 $C_{17}H_{25}N$  6) 6-Phenylamidomethyl-4-Isopropyl-1-Methyl-1,2,3,4-Tetrahydrobenzol. Sd.  $193^\circ_{11}$  (*C.* 1901 [1] 1026).  
 $C_{17}H_{20}O$  7) Base (aus d. Base  $C_{17}H_{25}N$ ). Sd.  $220^\circ_{30}$  (*C.* 1901 [2] 152).  
 $C_{17}H_{26}O_3$  5) Benzyläther d. 1-Menthol (*C.* 1902 [2] 1238).  
 $C_{17}H_{26}O_3$  5) Äthylester d. Isoalantolsäure (*B.* 34, 778). — \*II, 939.  
 $C_{17}H_{26}O_3$  5) Tetraäthylester d.  $\alpha$ -Penten- $\alpha\beta\gamma\gamma$ -Tetracarbonsäure. Sd. 205 bis  $207^\circ_{14}$  (*Soe.* 81, 1214 *C.* 1902 [2] 888).  
 $C_{17}H_{27}N$  6) Tetraäthylester d. R-Pentamethylen-1,1,2,2-Tetracarbonsäure. Sd.  $192-195^\circ_{12}$  (*J. pr.* [2] 64, 400).  
 $C_{17}H_{28}O$  3) Ficocerylalkohol. Sm.  $198^\circ$  (*R.* 20, 70).  
 $C_{17}H_{28}O_4$  \*1) Lichesterinsäure. Sm.  $122-123^\circ$  (*d.* 324, 43 *C.* 1902 [2] 904).  
 $C_{17}H_{30}O_6$  9) Diäthylester d. 1-Pelargonäpfelsäure. Sd.  $206,8-208,8^\circ_{11-15}$  (*Ph. Ch.* 36, 143).  
 $C_{17}H_{32}O_4$  10)  $\delta$ -Acetat- $\gamma$ -Isovalerat d.  $\delta$ -Oxy- $\gamma$ -Oxymethyl- $\beta\beta'$ -Dimethylheptan. Sd.  $150^\circ_{18}$  (*M.* 22, 558).  
 $C_{17}H_{32}O_5$  \*1) Oxyroccellsäure. Sm.  $128^\circ$  (*J. pr.* [2] 63, 541).  
 $C_{17}H_{34}O_2$  8) Kaurinolsäure. Sm.  $128-130^\circ$  (*C.* 1901 [1] 1228).  
 $C_{17}H_{35}Cl$  9) Säure (aus Olivenöl) (*C.* 1902 [1] 178).  
 1) Chlorheptadekan. Sd.  $175-177^\circ_{15}$  (*Am.* 28, 177 *C.* 1902 [2] 1081).

## — 17 III —

- $C_{17}H_9O_3Cl_3$  1) 1-Chlor-2-Naphtylester d. 3,5-Dichlor-2-Oxybenzol-1-Carbonsäure. Sm.  $155-157^\circ$  (*G.* 28 [1] 156). — \*II, 894.  
 $C_{17}H_9O_4N$  3) Phtalidderivat d. Oxyisocarbostyryl. Sm.  $314^\circ$  (*B.* 35, 2423 *C.* 1902 [2] 455).  
 $C_{17}H_9NBr_6$  1)  $\beta$ -Hexabrom-4-Methylphenyl-1-Naphtylamin. Sm.  $185^\circ$  (*J. pr.* [2] 64, 511 *C.* 1902 [1] 258).  
 $C_{17}H_{10}O_2N_2$  3) Picindirubin. Sm.  $297-299^\circ$  (*B.* 35, 2425 *C.* 1902 [2] 456).  
 $C_{17}H_{10}O_3N_4$  C 64,2 — H 3,1 — O 15,1 — N 17,6 — M. G. 318.  
 1) Carbonat d.  $\alpha$ -Oximido- $\alpha$ -Phenylelessigsäurenitril. Sm.  $190^\circ$  u. Zers. (*J. pr.* [2] 66, 367 *C.* 1902 [2] 1501).  
 $C_{17}H_{11}ON_3$  2) Nitril d. 2-Oxy-1-Phenylazonaphtalin-1<sup>3</sup>-Carbonsäure. Sm.  $186^\circ$  (*C.* 1902 [2] 938).  
 3) Nitril d. 2-Oxy-1-Phenylazonaphtalin-1<sup>4</sup>-Carbonsäure. Sm.  $236^\circ$  (*C.* 1902 [2] 938).  
 $C_{17}H_{11}OCl$  1) Pheno- $\alpha$ -Naphtoxanthoxoniumchlorid. +  $FeCl_3$  (*B.* 34, 3304).  
 $C_{17}H_{11}O_3N$  6) Oxim d. Dieumarylketon. Sm.  $222-223^\circ$  u. Zers. (*B.* 34, 775).  
 $C_{17}H_{11}O_4N$  8) 2-Naphtylester d. 4-Nitrobenzol-1-Carbonsäure. Sm.  $166^\circ$  (*B.* 35, 3418 *C.* 1902 [2] 1314).  
 $C_{17}H_{11}O_3N_3$  4) 1-[2,4-Dinitrobenzyliden]amidonaphtalin. Sm.  $202^\circ$  (*B.* 35, 1267 *C.* 1902 [1] 1102; *M.* 23, 558 *C.* 1902 [2] 742).  
 5) Nitril d.  $\alpha\delta$ -Di[4-Nitrophenyl] $\alpha\gamma$ -Butadien- $\alpha$ -Carbonsäure. Sm.  $276^\circ$  (*B.* 34, 3109).  
 $C_{17}H_{11}O_4Cl$  2) Benzoat d. 3-Chlor-7-Oxy-4-Methyl-1,2-Benzpyron. Sm.  $163^\circ$  (*B.* 34, 358).  
 $C_{17}H_{11}O_5N$  4) 3-Phtaloyl-1,4-Diketo-1,2,3,4-Tetrahydroisochinolin. Sm. noch nicht bei  $265^\circ$  (*B.* 35, 2423 *C.* 1902 [2] 456).  
 $C_{17}H_{11}O_5Br$  \*1) 3',4'-Methylenäther-5-Methyläther d.  $\beta$ -Brom-5-Oxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. Sm.  $240-241^\circ$  (*B.* 30, 302).  
 $C_{17}H_{11}O_6N_3$  2) 3,5-Dinitro-2-[1-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 150 bis  $151^\circ$ . Ba (*M.* 22, 393).  
 3) 3,5-Dinitro-2-[2-Naphtyl]amidobenzol-1-Carbonsäure. Sm. 238 bis  $239^\circ$ . Ba (*M.* 22, 395).  
 $C_{17}H_{11}NBr_4$  2)  $\beta$ -Tetrabrom-4-Methylphenyl-1-Naphtylamin. Sm.  $162^\circ$  (*J. pr.* [2] 64, 510 *C.* 1902 [1] 258).  
 3) isom.  $\beta$ -Tetrabrom-4-Methylphenyl-1-Naphtylamin. Sm.  $212^\circ$  (*J. pr.* [2] 64, 511 *C.* 1902 [1] 258).

- $C_{17}H_{12}O_3N_2$  \*8) 2-Oxy-1-Phenylazonaphtalin-1<sup>3</sup>-Carbonsäure. Sm. 243° (*C.* 1902 [2] 938).
- \*10) 3-Oxy-*p*-Phenylazonaphtalin-2-Carbonsäure. Sm. 232° (*B.* 34, 4164 *C.* 1902 [1] 318).
- 21) 2-Oxy-1-Phenylazonaphtalin-1<sup>2</sup>-Carbonsäure. Sm. 268° (272° u. Zers.) (*C.* 1902 [2] 938; *B.* 35, 3469 *C.* 1902 [2] 1316).
- 22) 2-Oxy-1-Phenylazonaphtalin-1<sup>4</sup>-Carbonsäure. Sm. 301° u. Zers. (*C.* 1902 [2] 938).
- $C_{17}H_{12}O_3N_4$  C 63,7 — H 3,7 — O 15,0 — N 17,5 — M. G. 320.
- 1) Verbindung (aus Chinolin u.  $\alpha$ -Oximido-4-Nitrophenyllessigsäurenitril). Sm. 172° (*J. pr.* [2] 66, 371 *C.* 1902 [2] 1502).
- $C_{17}H_{12}O_5N_2$  4) Anhydrid d. Methenyldianthranillessigsäure. Sm. 302° u. Zers. (*C.* 1902 [2] 122).
- $C_{17}H_{12}O_6N_4$  C 55,4 — H 3,3 — O 26,1 — N 15,2 — M. G. 368.
- 1) *p*-Trinitro-4-Methylphenyl-1-Naphtylamin. Sm. 245° (*J. pr.* [2] 64, 508 *C.* 1902 [1] 257).
- 2) Azoverbindung (aus 2-Oxynaphtalin u. 2,3-Dinitro-1-Oxybenzolmethyläther). Sm. 277—278° (*Soc.* 81, 994 *C.* 1902 [2] 697).
- $C_{17}H_{12}O_7S$  1) Benzolsulfonat d. 7-Oxy-1,2-Benzpyron-4-Carbonsäuremethylester. Sm. 171,5° (*B.* 34, 384).
- $C_{17}H_{15}ON$  \*1) 2-Oxy-1-Phenylimidomethylnaphtalin. Sm. 87° (*Bl.* [3] 25, 375).
- $C_{17}H_{15}ON_3$  6) Verbindung (aus Chinolin u.  $\alpha$ -Oximido- $\alpha$ -Phenyllessigsäurenitril). Sm. 66° (*J. pr.* [2] 66, 362 *C.* 1902 [2] 1501).
- $C_{17}H_{15}ON_5$  3) 7-Phenylhydrazon-2-Phenyl-4,7-Benzpyrantriazol-2,1,3? (Anhydrid d. Nitrosopyromekonsäurediphenylhydrazon). Sm. 242° (*C.* 1902 [1] 1109).
- $C_{17}H_{15}O_2N$  34) 2-Keto-3-Benzoyl-4-Methyl-1,2-Dihydrochinolin. Sm. 264° (*Ar.* 240, 136 *C.* 1902 [1] 818).
- 35) 2-Naphtylester d. 4-Amidobenzol-1-Carbonsäure. Sm. 171° (*B.* 35, 3418 *C.* 1902 [2] 1314).
- 36) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[3-Acetoxyphenyl]akrylsäure. Sm. 75—76° (*B.* 34, 3086).
- 37) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[4-Acetoxyphenyl]akrylsäure. Sm. 121—122° (*B.* 34, 3085).
- $C_{17}H_{15}O_3N_3$  3) Dibenzoylderivat d. 4-Amidopyrazol. Sm. 173° (*A.* 323, 283 *C.* 1902 [2] 1101).
- 4) Acetat d. 6-Oxy-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 150° (*B.* 34, 4246 *C.* 1902 [1] 209).
- $C_{17}H_{15}O_3N_4$  9) Verbindung (aus 5-Nitrofurant-2-Carbonsäure). Sm. 218° (*Am.* 27, 203 *C.* 1902 [1] 908).
- $C_{17}H_{15}O_4N$  12) Methylester d. 3-Benzoxylindol-2-Carbonsäure. Sm. 160° (*B.* 34, 1854; *D.R.P.* 131400 *C.* 1902 [1] 1343).
- $C_{17}H_{15}O_4N_3$  6) 2,4-Dinitrobenzyl-1-Naphtylamin. Sm. 164° (*B.* 35, 1266 *C.* 1902 [1] 1102; *M.* 23, 549 *C.* 1902 [2] 742).
- 7) 1<sup>2</sup>-Methyläther d. 2-Oxy-1-[4-Nitro-2-Oxyphenylazo]naphtalin. Sm. 269° (*C.* 1901 [2] 97).
- $C_{17}H_{15}O_4Cl$  1) Diacetat d. 5-Chlor-3,6-Dioxy-pentanthren. Sm. 152—156° (*B.* 34, 1558).
- $C_{17}H_{15}O_4Br$  4) Diacetat d. 5-Brom-3,6-Dioxy-pentanthren. Sm. 159° (*B.* 34, 1548).
- $C_{17}H_{15}O_5N$  2) *p*-[4-Methylphenyl]amido-5,6,8-Trioxyl-1,4-Naphtochinon (*D.R.P.* 127766 *C.* 1902 [1] 340).
- $C_{17}H_{15}O_5N_3$  C 60,2 — H 3,8 — O 23,6 — N 12,4 — M. G. 339.
- 1) 1<sup>2</sup>-Methyläther d. 2-Oxy-1-[5-Nitro-2,4-Dioxyphenylazo]naphtalin. Zers. bei 240—250° (*Soc.* 77, 1173; *C.* 1901 [2] 96).
- 2) 1<sup>2</sup>-Methyläther d. 2-Oxy-1-[4-Nitro-2,5-Dioxyphenylazo]naphtalin? (*Soc.* 79, 1079).
- 3) Lakton d.  $\delta$ -Phenylazo- $\gamma$ -Keto- $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]butan- $\delta$ -Carbonsäure. Sm. 218° u. Zers. (*B.* 35, 1864 *C.* 1902 [2] 41).
- 4) Azoverbindung (aus 2-Oxynaphtalin u. 2-Nitro-1,3-Dioxybenzol-1-Methyläther). Sm. 234—235° (*Soc.* 81, 999 *C.* 1902 [2] 698).
- $C_{17}H_{15}O_5N_5$  C 55,6 — H 3,5 — O 21,8 — N 19,1 — M. G. 367.
- 1) 5-Keto-4-[4-Nitrophenyl]azo-1-Phenyl-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 196° u. Zers. (*B.* 34, 85).

- $C_{17}H_{13}O_6N_5$  2)  $\alpha$ -[4-Nitrophenyl]azo- $\alpha$ -[5-Keto-1-Phenyl-4,5-Dihydropyrazolyl-3-]essigsäure. Sm. 205° u. Zers. (B. 34, 87).
- $C_{17}H_{13}N_3Cl_2$  1) 7-Chlormethylat d. 9-Chlor-5-Amido- $\alpha$ - $\beta$ -Naphtophenazin. 2 +  $PtCl_4$  (B. 34, 1096).
- $C_{17}H_{14}ON_2$  \*1) s-Phenyl-2-Naphtylharnstoff. Sm. 221° (Soc. 79, 107).
- \*8) 2-Oxy-1-Phenylhydrazonmethylnaphtalin. Sm. 195° (Bl. [3] 25, 375).
- 38) 4-Nitroso-1-[4-Methylphenyl]amidonaphtalin. Sm. 161° (J. pr. [2] 64, 504 C. 1902 [1] 257).
- 39) 4-Methylphenyl-1-Naphtylnitrosamin. Sm. 102° (J. pr. [2] 64, 503 C. 1902 [1] 257).
- 40) s-Phenyl-1-Naphtylharnstoff. Sm. 222—223° (P. Ch. S. Nr. 229). — \*II, 334.
- 41)  $\alpha$ -Benzoyl- $\alpha$ -[1-Naphtyl]hydrazin. Sm. 120,5° (Am. 25, 489).
- 42) 1-[4-Oxy-3-Methylphenylazo]naphtalin. Sm. 154,5° (Am. 25, 493).
- 43) 2-Oxy-1-[3-Methylphenylazo]naphtalin. Sm. 141° (C. 1902 [2] 938).
- 44) Phenyläther d. 6-Oxy-3-[4-Methylphenyl]-1,2-Diazin. Sm. 135° (B. 34, 3832 C. 1902 [1] 52).
- 45) Phenylamid d. 1-Phenylpyrrol-2-Carbonsäure. Sm. 136° (B. 35, 2530 C. 1902 [2] 452).
- $C_{17}H_{14}ON_4$  4) Harnstoff (aus 2-Phenylazopyrrol u. Phenylisocyanat). Sm. 108—110° (C. 1901 [1] 1323).
- $C_{17}H_{14}O_2N_2$  \*3) 2-Nitrobenzyl-2-Naphtylamin. Sm. 162° (Bl. [3] 27, 1058 C. 1902 [2] 1510).
- \*22) Phenylimid d. Phenylamidomethylmaleinsäure. Sm. 157° (B. 35, 1627 C. 1902 [1] 1273).
- 27) 2-Nitrobenzyl-1-Naphtylamin. Sm. 97° (Bl. [3] 27, 1057 C. 1902 [2] 1509).
- 28) 3-Nitrobenzyl-1-Naphtylamin. Sm. 94° (Bl. [3] 27, 1060 C. 1902 [2] 1510).
- 29) 4-Nitrobenzyl-1-Naphtylamin. Sm. 126—127° (Bl. [3] 27, 1061 C. 1902 [2] 1510).
- 30) 3-Nitrobenzyl-2-Naphtylamin. Sm. 80° (Bl. [3] 27, 1060 C. 1902 [2] 1510).
- 31) 4-Nitrobenzyl-2-Naphtylamin. Sm. 121,5° (Bl. [3] 27, 1063 C. 1902 [2] 1510).
- 32) 4-Nitro-1-Benzylamidonaphtalin. Sm. 156° (C. 1901 [1] 237).
- 33) p-Nitro-4-Methylphenyl-1-Naphtylamin. Sm. 114° (J. pr. [2] 64, 506 C. 1902 [1] 257).
- 34) isom. p-Nitro-4-Methylphenyl-1-Naphtylamin. Sm. 188° (J. pr. [2] 64, 507 C. 1902 [1] 257).
- $C_{17}H_{14}O_3Br_2$  6) 3,4-Methylenäther d.  $\gamma$ - $\delta$ -Dibrom- $\beta$ -Keto- $\alpha$ -Phenyl- $\delta$ -[3,4-Dioxyphenyl]butan. Sm. 135° (M. 22, 758).
- $C_{17}H_{14}O_3S$  2) 2-Naphtylester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 125° (B. 34, 2999).
- $C_{17}H_{14}O_4N_4$  C 60,3 — H 4,1 — O 18,9 — N 16,6 — M. G. 338.
- 1) Verbindung (aus 4-Nitrobenzaldehyd u. p-Phenylazo- $\beta$ -Amidocrotonsäureäthylester). Sm. 176—177° (B. 34, 3603).
- $C_{17}H_{14}O_4N_6$  C 53,7 — H 3,8 — O 17,5 — N 22,9 — M. G. 366.
- 1) Imid d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Phenylhydrazonpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 175° (B. 34, 90).
- $C_{17}H_{14}O_4Cl_2$  1) Methylenester d. p-Chlor-1-Methylbenzol-2-Carbonsäure. Sd. 125°<sub>15</sub> (C. r. 134, 717 C. 1902 [1] 975).
- 2) Methylenester d. p-Chlor-1-Methylbenzol-3-Carbonsäure. Sd. 130 bis 132°<sub>30</sub> (C. r. 134, 717 C. 1902 [1] 975).
- 3) Methylenester d. p-Chlor-1-Methylbenzol-4-Carbonsäure. Sd. 135 bis 136°<sub>30</sub> (C. r. 134, 717 C. 1902 [1] 975).
- 4) Methylenester d. Phenylchloroessigsäure. Sd. 138—140°<sub>15</sub> (C. r. 134, 717 C. 1902 [1] 975).
- $C_{17}H_{14}O_4Br_2$  1) 2-Acetat-5-Benzozat d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol. Sm. 162—163° (B. 35, 439 C. 1902 [1] 641).
- $C_{17}H_{14}O_6N_2$  2) Methenyldianthranileessigsäure. Sm. 190° (C. 1902 [2] 122).
- $C_{17}H_{14}O_6N_4$  2) 1-Amidonaphtalin + 2,4,6-Trinitro-1-Methylbenzol. Sm. 141,5° (Soc. 79, 530).

- $C_{17}H_{14}O_6N_4$  3) 2-Amidonaphtalin + 2,4,6-Trinitro-1-Methylbenzol. Sm. 113,5° (Soc. 79, 530).
- $C_{17}H_{14}O_7N_4$  2) 1-Amidonaphtalin + 2,4,6-Trinitro-1-Oxybenzolzomethyläther. Sm. 75° (Soc. 79, 532).
- $C_{17}H_{14}NCl$  1) Chlormethylat d. Base  $C_{16}H_{11}N$  (aus Morphin). 2 +  $PtCl_4$  (B. 34, 1163).
- $C_{17}H_{14}NBr$  1)  $\beta$ -Brom-4-Methylphenyl-1-Naphtylamin. Sm. 220° (J. pr. [2] 64, 510 C. 1902 [1] 258).
- $C_{17}H_{14}NJ$  1) Jodmethylat d. Fluorencinolin +  $H_2O$ . Sm. 241° (B. 35, 3278 C. 1902 [2] 1261).
- $C_{17}H_{14}N_2S$  \*2) s-Phenyl-2-Naphtylthioharnstoff. Sm. 182—183° (C. 1900 [2] 531; 1901 [2] 198).
- $C_{17}H_{15}ON$  23)  $\alpha$ -Oxy- $\alpha$ -[2-Naphtyl]amido- $\alpha$ -Phenylmethan.  $HCl$  (B. 35, 989 C. 1902 [1] 870).
- 24) 2-Oxy-1-[ $\alpha$ -Amidobenzyl]naphtalin. Sm. 125° u. Zers.  $HCl$  (G. 31 [1] 385).
- 25) Methyläther d. 4-Oxyphenyl-1-Naphtylamin. Sm. 110° (D. R. P. 80669). — \*II, 400.
- 26) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[2-Oxyphenyl]akrylathyläthersäure. Sm. 82° (B. 34, 3087).
- 27) Nitril d.  $\alpha$ -Phenyl- $\beta$ -[3-Oxyphenyl]akrylathyläthersäure. Sm. 72° (B. 34, 3087).
- $C_{17}H_{15}ON_3$  13) Aethyläther d. 6-Oxy-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 120° (2HCl,  $PtCl_4$ ) (B. 34, 4245 C. 1902 [1] 209).
- $C_{17}H_{15}ON_5$  2) 2-[ $\alpha$ -Semicarbazonyl]-3-Phenyl-1,4-Benzdiazin. Sm. 243° (B. 35, 3318 C. 1902 [2] 1110).
- $C_{17}H_{15}O_2N$  17) Methyläther d. 9- oder 10-Acetylamido-3-Oxyphenanthren. Sm. 150° (A. 321, 287 C. 1902 [2] 58).
- 18) Aethyläther d. 5- oder 6-Oxy-3-Keto-1-Benzyliden-1,3-Dihydroisindol. Sm. 160—162° (B. 34, 3739 C. 1902 [1] 39).
- 19) Aethyläther d. 6- oder 7-Oxy-1-Keto-3-Phenyl-1,2-Dihydroisochinolin. Sm. 161° (B. 34, 3744 C. 1902 [1] 40).
- 20) Aethylester d. Phenanthren-2-Amidoameisensäure. Sm. 125° (A. 321, 320 C. 1902 [2] 60).
- 21) Aethylester d. Phenanthren-3-Amidoameisensäure. Sm. 120—121° (123°) (B. 34, 3534; A. 321, 318 C. 1902 [2] 60).
- 22) Aethylester d. Phenanthren-9-Amidoameisensäure. Sm. 156—158° (B. 34, 1466; B. 35, 2728 C. 1902 [2] 643).
- $C_{17}H_{15}O_2N_3$  17) 1<sup>3</sup>-Methyläther d. 2-Oxy-1-[4-Amido-2-Oxyphenylazo]naphtalin. Sm. oberh. 300° (C. 1901 [2] 97).
- 18) Nitril d.  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[4-Dimethylamidophenyl]akrylsäure. Sm. 245° (B. 35, 3578 C. 1902 [2] 1384).
- 19) Phenylimid d.  $\alpha$ -Phenylhydrazonpropan- $\alpha\beta$ -Dicarbonsäure. Sm. 183—184° (B. 35, 1629 C. 1902 [1] 1274).
- $C_{17}H_{15}O_2N_5$  3) 2-Oximido-3,4-Di[Phenylhydrazon]-3,4-Dihydro-1,2-Pyran (Diphenylhydrazon d. Nitrosopyromekonsäure). Sm. 165° (C. 1902 [1] 1108).
- 4) isom. Diphenylhydrazon d. Nitrosopyromekonsäure. Sm. 197° (C. 1902 [1] 1108).
- 5) 2-Methyl-3-[ $\alpha$ -4-Nitrophenylhydrazon]-1,4-Benzdiazin. Sm. 264° (B. 35, 3312 C. 1902 [2] 1109).
- $C_{17}H_{15}O_2Br$  3) Methyläther d.  $\alpha$ - oder  $\beta$ -Brom- $\gamma$ -Keto- $\delta$ -Phenyl- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 85° (M. 22, 756).
- $C_{17}H_{15}O_3N$  18) 3,4-Methylenäther d.  $\gamma$ -Oximido- $\delta$ -Phenyl- $\alpha$ -[3,4-Dioxyphenyl]- $\alpha$ -Buten. Sm. 137° (M. 22, 759).
- 19) Aethyläther d. 6- oder 7-Oxy-1-Keto-4-Benzyl-2,3-Benzoxazin. Sm. 112° (B. 34, 3739 C. 1902 [1] 39).
- 20)  $\alpha$ -Oximido- $\alpha$ -[9-Fluorenyl]essigsäure. Sm. 137—138° (B. 35, 761 C. 1902 [1] 814).
- 21) 5-Keto-1,3-Diphenyltetrahydropyrrrol-2-Carbonsäure. Sm. 147°. Ag (B. 35, 520 C. 1902 [1] 658).
- 22) Oximilakton d.  $\beta$ -Oximido- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 164,5—166° (B. 34, 3743 C. 1902 [1] 40).
- 23) 2-Acetylphenylamid d.  $\beta$ -Oxy- $\beta$ -Phenylakrylsäure. Sm. 74—75° (Ar. 240, 137 C. 1902 [1] 818).



- $C_{17}H_{15}O_3N$  24) 2-Acetylphenylamid d. isom.  $\beta$ -Oxy- $\beta$ -Phenylakrylsäure. Sm. 104° (Ar. 240, 138 C. 1902 [1] 818).
- 25) 2-Acetylphenylamid d. Benzoylessigsäure. Sm. 176° (Ar. 240, 138 C. 1902 [1] 818).
- $C_{17}H_{15}O_3Br$  4) Aethyläther d. 4-Brom-6- oder 7-Oxy-3-Phenyl-3,4-Dihydro-2,1-Benzpyron. Sm. 103° (B. 34, 3741 C. 1902 [1] 40).
- $C_{17}H_{15}O_3N$  8) 4-Nitrobenzoat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 80,5° (D.R.P. 67923; H. 32, 607). — \*II, 774.
- 9)  $\alpha$ -[4-Aethoxyphenyl]- $\beta$ -[2-Nitrophenyl]akrylsäure. Sm. 158° (A. 322, 152 C. 1902 [2] 282).
- $C_{17}H_{15}O_3N_3$  \*5) Aethylester d.  $\alpha$ -[4-Nitrophenylazo]benzoylessigsäure. Sm. 114° (B. 35, 926 C. 1902 [1] 807).
- 7) Aethylester d. Phenylazo-3-Nitrobenzoylessigsäure. Sm. 134—135° (B. 35, 933 C. 1902 [1] 808).
- 8) Aethylester d. Phenylazo-4-Nitrobenzoylessigsäure. Sm. 126—127° u. Zers. (B. 35, 932 C. 1902 [1] 808).
- $C_{17}H_{15}O_4N$  \*2)  $\beta$ -Methylester d. Papaverinsäure (M. 23, 334 C. 1902 [2] 201).
- \*3)  $\gamma$ -Methylester d. Papaverinsäure (M. 23, 336 C. 1902 [2] 201).
- $C_{17}H_{15}O_3N$  \*1) Corydilsäure (Soc. 81, 155 C. 1902 [1] 356).
- $C_{17}H_{15}N_2Cl$  2) 5-Chlor-3-Methyl-1-Phenyl-4-Benzylpyrazol. Sm. 50° (B. 34, 1308).
- $C_{17}H_{16}ON_2$  \*5) 5-Keto-3-Methyl-1-Phenyl-4-Benzyl-4,5-Dihydropyrazol. Sm. 136° (B. 34, 1307).
- 14)  $\beta\delta$ -Di[Phenylimido]- $\gamma$ -Ketopentan? Sm. 157,5° (B. 34, 3053).
- 15)  $\alpha$ -Imido- $\alpha$ -[4-Methylbenzoyl]methylenamido- $\alpha$ -[4-Methylphenyl]-methan. Sm. 240° (B. 34, 3028).
- 16) 2-Phenylimido-3-Phenylamido-1-Keto-R-Pentamethylen? HCl (B. 35, 3215 C. 1902 [2] 1251).
- $C_{17}H_{16}OBr_2$  1)  $\gamma\delta$ -Dibrom- $\beta$ -Keto- $\alpha$ -Phenyl- $\delta$ -[4-Methylphenyl]butan. Sm. 106° (M. 22, 751).
- 2) isom.  $\gamma\delta$ -Dibrom- $\beta$ -Keto- $\alpha$ -Phenyl- $\delta$ -[4-Methylphenyl]butan. Sm. 70—89° (M. 22, 752).
- $C_{17}H_{16}O_2N_2$  24) Phenylamid d.  $\alpha$ -Phenylamido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 156° (B. 35, 2509 C. 1902 [2] 438).
- 25) Phenylimid d.  $\alpha$ -Phenylamidopropan- $\alpha\beta$ -Dicarbonsäure. Sm. 186,5 bis 187° (B. 35, 1628 C. 1902 [1] 1273).
- 26) isom. Phenylimid d.  $\alpha$ -Phenylamidopropan- $\alpha\beta$ -Dicarbonsäure. Sm. 134° (B. 35, 1628 C. 1902 [1] 1273).
- 27) 4-Dimethylamidobenzylimid d. Benzol-1,2-Dicarbonsäure. Sm. 104—105° (D.R.P. 134979 C. 1902 [2] 1084).
- 28) Cinnamylidenhydrazid d.  $\alpha$ -Oxyphenylessigsäure. Sm. 180° (B. 34, 2798).
- $C_{17}H_{16}O_2N_4$  3)  $\alpha$ -Phenylazo- $\alpha$ -Acetylphenylhydrazon- $\beta$ -Ketopropan. Sm. 102° (J. pr. [2] 64, 225).
- $C_{17}H_{16}O_3Br_2$  4) Methyläther d.  $\gamma\delta$ -Dibrom- $\beta$ -Keto- $\alpha$ -Phenyl- $\delta$ -[4-Oxyphenyl]butan. Sm. 116—117° u. Zers. (M. 22, 756).
- 5)  $\beta\gamma$ -Dibrom- $\alpha\delta$ -Diphenylvaleriansäure. Sm. 172° u. Zers. (A. 319, 216 C. 1902 [1] 108). — \*II, 872.
- $C_{17}H_{16}O_3N_2$  \*1) 2,2'-Diacetyldiamidodiphenylketon. Sm. 154° (J. pr. [2] 65, 338 C. 1902 [1] 1352).
- \*3) 2,4'-Diacetyldiamidodiphenylketon. Sm. 170° (J. pr. [2] 65, 312 C. 1902 [1] 1350).
- \*14) Aethylester d.  $\alpha$ -Phenylazobenzoylessigsäure. Sm. 65° (65—67°) (B. 35, 924 C. 1902 [1] 806).
- 21)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[3-Nitro-4-Dimethylamidophenyl]propen. Sm. 130—131° (B. 35, 3577 C. 1902 [2] 1384).
- 22)  $\gamma$ -Keto- $\gamma$ -[3-Nitrophenyl]- $\alpha$ -[4-Dimethylamidophenyl]propen. Sm. 165° (B. 33, 3529).
- 23) Methylester d. 3-Phenylamido-2-Keto-1,2,3,4-Tetrahydrochinolin-3-Carbonsäure. Sm. 171° (B. 35, 516 C. 1902 [1] 658).
- $C_{17}H_{16}O_3N_4$  \*1) Aethylester d. Formazylglyoxalsäure. Sm. 105—106° (J. pr. [2] 64, 207).
- 3)  $\gamma$ -Semicarbazon- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[2-Nitrophenyl]propen. Sm. 111° (B. 35, 1072 C. 1902 [1] 930).

- $C_{17}H_{10}O_3N_4$  4)  $\gamma$ -Semicarbazon- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[3-Nitrophenyl]propen. Sm. 140° (B. 35, 1072 C. 1902 [1] 930).
- 5)  $\gamma$ -Semicarbazon- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[4-Nitrophenyl]propen. Sm. 200° (B. 35, 1073 C. 1902 [1] 930).
- 6)  $\alpha$ - oder  $\gamma$ -Semicarbazon- $\beta$ -Oxido- $\alpha$ - oder  $\gamma$ -Keto- $\alpha$ - $\delta$ -Diphenylbutan. Zers. bei 220° (B. 34, 1487).
- 7) Acetat d. 4-Phenylamido-3-Oxy-5-Keto-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 170° (C. 1901 [1] 936).
- 8) Acetat d. 4-[4-Methylphenyl]amido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 146—147° (C. 1901 [1] 936).
- $C_{17}H_{16}O_3Br_2$  4) 4-Benzoat d. 3,4-Dioxy-1- $[\beta\gamma$ -Dibrompropyl]benzol-3-Methyläther. Sm. 97 (B. 23 [2] 204). — <sup>2</sup>II, 720.
- $C_{17}H_{16}O_4N_2$  \* 6)  $\alpha\beta$ -Di[Benzoylamido]propionsäure. Sm. 188—189° (B. 34, 1183).
- 13) Dibenzoylederivat d.  $\beta$ -Oxyäthylharnstoff. Sm. 129° (R. 13, 488).
- 14) Dimethylester d. Phenylimidophenylamidomethan-4,4'-Dicarbonsäure. Sm. 240° (C. 1902 [2] 955).
- $C_{17}H_{16}O_5N_2$  9) 3,4-Dioxy-1-Benzoylhydrazonmethylbenzoldimethyläther-2-Carbonsäure (Opionsäurebenzoylhydrazon). Sm. 227° u. Zers. (B. 34, 1016).
- 10) Methylester d. 2-[3-Nitro-4-Dimethylamidobenzoyl]benzol-1-Carbonsäure. Sm. 140° (Bl. [3] 25, 512).
- 11) Phenylmonamid d.  $\beta$ -[3-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 160°. Ag (Am. 28, 54 C. 1902 [2] 703).
- 12) Phenylmonamid d.  $\beta$ -[4-Nitrophenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 120—121°. Ag (Am. 28, 58 C. 1902 [2] 703).
- $C_{17}H_{16}O_6N_4$  5)  $\alpha$ -Acetyl[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Acetylamidophenyl]-methan. Sm. 210—211° (B. 35, 741 C. 1902 [1] 753).
- $C_{17}H_{16}NCl$  4) Chlormethylat d. Base  $C_{15}H_{13}N$  (aus Morphin). 2 +  $PtCl_4$  (B. 34, 1163).
- $C_{17}H_{16}N_3Cl$  1) 5-Chlor- $\beta$ -Amido-3-Methyl-1-Phenyl-4-Benzylpyrazol. Sm. 100° (B. 34, 1308).
- $C_{17}H_{16}N_4S_4$  1) Methylenäther d. 5-Merkapto-3-Phenyl-2,3-Dihydro-1,3,4-Thio-diazol. Sm. 123—124° (J. pr. [2] 65, 476 C. 1902 [2] 28).
- $C_{17}H_{17}ON$  \* 14) d-1,2,3,4-Tetrahydro-2-Naphtylamid d. Benzolcarbonsäure. Sm. 155—157° (Soc. 79, 84).
- 15)  $\gamma$ -Keto- $\gamma$ -Phenyl- $\alpha$ -[4-Dimethylamidophenyl]propen. Sm. 114° (B. 35, 3576 C. 1902 [2] 1384).
- 16)  $\gamma$ -Oxido- $\delta$ -Phenyl- $\alpha$ -[4-Methylphenyl]- $\alpha$ -Buten<sup>2</sup> Sm. 147° (M. 22, 753).
- 17) 1-Benzoylamido-2-Methyl-2,3-Dihydroinden. Sm. 160° (C. 1901 [2] 421).
- 18) 6-[ $\alpha$ -Oximidobenzyl]-1,2,3,4-Tetrahydronaphtalin. Sm. 142° (B. 35, 2514 C. 1902 [2] 451).
- 19) isom. 6-[ $\alpha$ -Oximidobenzyl]-1,2,3,4-Tetrahydronaphtalin. Sm. 116° (B. 35, 2514 C. 1902 [2] 452).
- 20) Diphenylamid d.  $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sm. 99° (B. 34, 2142).
- 21) Phenylbenzylamid d. Propen- $\alpha$ -Carbonsäure. Sm. 82° (B. 34, 2136).
- 22) Phenylbenzylamid d. Propen- $\beta$ -Carbonsäure. Sd. 204°<sub>15</sub> (B. 34, 2137).
- 23) Phenylamid d. 1,2,3,4-Tetrahydronaphtalin-6-Carbonsäure. Sm. 141° (B. 35, 2515 C. 1902 [2] 452).
- 24) 1,2,3,4-Tetrahydro-6-Naphtylamid d. Benzolcarbonsäure. Sm. 166 bis 167° (B. 35, 2515 C. 1902 [2] 451).
- $C_{17}H_{17}ON_3$  Nitril d.  $\alpha$ -[2-Methoxyphenyl]imido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 148—149° (B. 35, 3575 C. 1902 [2] 1384).
- 7) Nitril d.  $\alpha$ -[4-Methoxyphenyl]imido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 133—134° (B. 35, 3574 C. 1902 [2] 1384).
- $C_{17}H_{17}O_2N$  38) 4-Methyläther d.  $\gamma$ -Oxido- $\delta$ -Phenyl- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 97—98° (M. 22, 757).
- 39) 4-Methyläther- $\beta$ -Phenyläther d.  $\gamma$ -Oxido- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 179° (B. 35, 3556 C. 1902 [2] 1311).
- 40) Phenylamidoformiat d.  $\gamma$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten. Sm. 94—95° (B. 35, 2650 C. 1902 [2] 588).
- $C_{17}H_{17}O_2N_3$  8) Phenyläther d.  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten. Sm. 216° (B. 35, 3554 C. 1902 [2] 1311).

- $C_{17}H_{17}O_2N_3$  9) 3,5-Dicyan-2,6-Diketo-1,4-Dimethyl-4- $[\beta$ -Phenyläthyl]hexahydro-pyridin. Sm. 203—204° (C. 1901 [1] 581).
- $C_{17}H_{17}O_3N$  \* 10) Methyl ester d. 2-[4-Dimethylamidobenzoyl]benzol-1-Carbonsäure. Sm. 118° (Bl. [3] 25, 171).
- \* 26) Phenylmonamid d.  $\beta$ -Phenylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 171° (A. 320, 86).
- 33) Trimethyläther d. 10-Oximido-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 96° (A. 323, 228 C. 1902 [2] 802).
- 34) 9-Methyläther-9-Aethyläther d. 10-Oximido-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 134—135° u. Zers. (A. 323, 230 C. 1902 [2] 802).
- 35)  $\alpha$ -[4-Aethoxyphenyl]- $\beta$ -[2-Nitrophenyl]akrylsäure. Sm. 189° (A. 322, 153 C. 1902 [2] 282).
- 36) Aethylester d. 3-[3,4-Dimethylbenzoyl]pyridin-2-Carbonsäure. Sm. 37—39° (M. 22, 117).
- 37) 2-Methoxyl-4-Allylphenylester d. 4-Amidobenzol-1-Carbonsäure. Sm. 156° (D. R. P. 67923). — \*II, 789.
- 38) Benzoat d.  $\alpha$ -Benzoylamido- $\beta$ -Oxypropan. Sm. 87° (C. 1901 [1] 819).
- 39) Amid d.  $\alpha$ -Keto- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 149—151° (B. 34, 3739 C. 1902 [1] 39).
- $C_{17}H_{17}O_3N_3$  5)  $\beta$ -Phenyläther d.  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 220° (B. 35, 3556 C. 1902 [2] 1311).
- $C_{17}H_{17}O_3Cl$  1) 1-Isobutyläther d. 6-Chlor-1,3,6-Trioxypentanthren. Sm. 140 bis 141° (B. 34, 1555).
- $C_{17}H_{17}O_4N$  22) Base (aus Glaucin). HJ (C. 1901 [2] 783).
- 23)  $\beta$ -Oximido- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 174° (B. 34, 3743 C. 1902 [1] 40).
- 24) Propylester d. Benzoyl-4-Oxyphenylamidoameisensäure. Sm. 133 bis 144° (D. R. P. 73285). — \*II, 740.
- $C_{17}H_{17}O_4N_3$  4) 9-Methyläther d. 3,5-Di[Acetylamido]-9-Oxyphenoxazoniumhydroxyd. Methylsulfat (A. 322, 28 C. 1902 [2] 222).
- $C_{17}H_{17}O_6Br$  1) Diäthylester d. 3-Brom-1,4-Dioxynaphtalin-2-Methyldicarbon-säure. Sm. 130° u. Zers. (B. 34, 1553).
- $C_{17}H_{17}N_3J$  4) 3-Jodäthylat d. 2,4-Diphenylimidazol. Sm. 162° (B. 34, 1831).
- $C_{17}H_{15}ON_2$  15)  $\alpha$ -Imido- $\alpha$ -[ $\alpha$ -Benzoylisopropyl]amido- $\alpha$ -Phenylmethan. Sm. 175° (B. 34, 641).
- 16)  $\gamma$ -Keto- $\gamma$ -[3-Amidophenyl]- $\alpha$ -[4-Dimethylamidophenyl]propen. 2HCl, (2HCl, PtCl<sub>4</sub>) (B. 34, 3530).
- 17)  $\alpha$ -[2-Oxybenzyliden]- $\beta$ -[2,4,5-Trimethylbenzyliden]hydrazin (B. 35, 3238 C. 1902 [2] 1045).
- 18) 2-Keto-1,3-Di[3-Methylphenyl]tetrahydroimidazol. Sm. 146° (B. 34, 1513).
- 19) Base (aus Methylanilin u. Formaldehyd) (C. 1902 [2] 1174).
- $C_{17}H_{15}ON_4$  5) Di[Phenylhydrazon] d.  $\beta\gamma\delta$ -Triketopentan. Sm. 156° u. Zers. (B. 34, 3053).
- $C_{17}H_{15}O_2N_2$  36) Diäthyläther d. Di[4-Oxyphenylimido]methan. 2HCl (C. 1899 [1] 951). — \*II, 412.
- 37) Benzoylpseudoäthylbenzylharnstoff (Aethyläther d. Benzoylimido-benzylamidooxymethan). Sm. 89—90° (Am. 27, 219 C. 1902 [1] 916). — \*II, 736.
- 38) Benzoylpseudoäthyl-4-Methylphenylharnstoff (Aethyläther d. Benzoylimido-4-Methylphenylamidooxymethan). Sm. 75° (Am. 27, 219 C. 1902 [1] 915). — \*II, 736.
- 39)  $\alpha$ -Acetyl- $\alpha\beta$ -Di[4-Methylphenyl]harnstoff. Sm. 140° (B. 35, 1878 C. 1902 [2] 33).
- 40) Dibenzoylpropylhydrazin. Sm. 131° (B. 34, 3268).
- 41) 5-Aethyläther-2-[4-Methylphenyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 145—146°. Pikrat (J. pr. [2] 63, 189).
- 42)  $\alpha$ -Phenylimido- $\gamma$ -Phenylamidovaleriansäure. Sm. 194—195° (B. 17, 996; A. 265, 254; A. ch. [7] 9, 468). — II, 405; \*II, 205.
- $C_{17}H_{15}O_2N_4$  8)  $\alpha$ -Phenyl- $\beta$ -(2,4-Di[Acetylamido]benzyliden)hydrazin. Sm. 246 bis 252° u. Zers. (B. 35, 2714 C. 1902 [2] 638).
- 9) 4,6-Di[Acetylamido]-3-Methylazobenzol. Sm. 216—217° (Soc. 81, 94 C. 1902 [1] 186).

- $C_{17}H_{15}O_2S_2$  \*1)  $\gamma\gamma$ -Dimerkaptovalerianidiphenyläthersäure. Sm. 67° (B. 34, 2652, 2656).
- $C_{17}H_{15}O_3N_2$  16) 5-Aethyläther-2-[2-Methoxyphenyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 122—123°. Pikrat (J. pr. [2] 63, 190).
- $C_{17}H_{15}O_3N_4$  4) s-Di[4-Methylphenylamidoformyl]harnstoff. Sm. 170° (Soc. 79, 844).
- $C_{17}H_{15}O_3S$  1)  $\beta$ -Aethylsulfon- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 156° (B. 34, 1403).
- $C_{17}H_{15}O_4N_2$  18) Phenylazomethylphloroglucinbutanon. Sm. 181—182° (A. 318, 290).
- 19) Dimethylester d. 4,4'-Diamidodiphenylmethan-3,3'-Dicarbonsäure. Sm. 147°. 2 HCl (J. pr. [2] 63, 249; A. 324, 130 C. 1902 [2] 1253).
- 20) Dimethylester d. Di[Phenylamido]malonsäure. Sm. 124—125° (B. 35, 522 C. 1902 [1] 659; B. 35, 1820 C. 1902 [2] 25).
- 21) Dimethylester d. Di[Phenylamido]methan-2,2'-Dicarbonsäure. Sm. 119—120°, Sd. 280° u. Zers. (J. pr. [2] 63, 245, 569; J. pr. [2] 65, 534 C. 1902 [2] 361).
- 22) Phenazin d. 1,2-Diketo-R-Pentamethylen-3,5-Dicarbonsäure-äthylester. Sm. 204° (B. 35, 3208 C. 1902 [2] 1249).
- 23) 2-Nitrophenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 47° (B. 34, 2060).
- 24) 3-Nitrophenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 77° (B. 34, 2063).
- 25) 4-Nitrophenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 125° (B. 34, 2068).
- $C_{17}H_{15}O_4N_4$  2) 4-[2,4-Dinitrobenzyliden]amido-1-Diäthylamidobenzol +  $H_2O$ . Sm. 173° u. Zers. (B. 35, 1227 C. 1902 [1] 1000).
- $C_{17}H_{15}O_5N_2$  \*2) Diäthylester d.  $\alpha\gamma$ -Dicyan- $\beta$ -[2-Oxyphenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 140° (C. 1902 [2] 741).
- $C_{17}H_{15}O_6N_2$  C 59,0 — H 5,2 — O 27,7 — N 8,1 — M. G. 346.
- 1) Diäthyläther d. Di[ $\beta$ -Nitro- $\rho$ -Oxyphenyl]methan (OH:  $NO_2$  = 1:2). Sm. 210—215° (D. R. P. 72490). — \*II, 604.
- 2) Diäthyläther d. Di[ $\beta$ -Nitro- $\rho$ -Oxyphenyl]methan (OH:  $NO_2$  = 1:3). Sm. 85—90° (D. R. P. 73951). — \*II, 604.
- 3) Diäthyläther d. Di[ $\beta$ -Nitro- $\rho$ -Oxyphenyl]methan (ON:  $NO_2$  = 1:4). Sm. 217—218° (D. R. P. 73946). — \*II, 604.
- 4)  $\alpha$ -Nitro- $\alpha$ -[3-Nitrobenzoyl]campher. Sm. 176—177° u. Zers. (C. 1902 [2] 52).
- $C_{17}H_{15}O_6S_2$  1)  $\gamma\gamma$ -Di[Phenylsulfon]valeriansäure. Sm. 140° (B. 34, 2652).
- $C_{17}H_{15}ON$  \*12)  $\gamma$ -Oximido- $\alpha\epsilon$ -Diphenylpentan. Sm. 94° (M. 22, 665).
- $C_{17}H_{15}ON_3$  6) Nitril d.  $\alpha$ -[2-Methoxyphenyl]amido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 133° (B. 35, 3574 C. 1902 [2] 1384).
- 7) Nitril d.  $\alpha$ -[4-Methoxyphenyl]amido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 109—110° (B. 35, 3574 C. 1902 [2] 1384).
- $C_{17}H_{19}OBr$  1)  $\alpha$ -Brombenzylidencampher (Bl. [3] 27, 679 C. 1902 [2] 430).
- 2) d-2-Brombenzylidencampher. Sm. 105° (C. r. 133, 82; Bl. [3] 27, 680 C. 1902 [2] 430).
- 3) d-4-Brombenzylidencampher. Sm. 129—130° (C. r. 133, 82; Bl. [3] 27, 680 C. 1902 [2] 430).
- $C_{17}H_{19}O_2N$  \*10) Methylester d. 4-Dimethylamidodiphenylmethan-2'-Carbonsäure. Sm. 62° (Bl. [3] 25, 202).
- 27) 5-Oxy-4-Acetylphenylamidomethyl-1,2-Dimethylbenzol. Sm. 137 bis 138° (B. 35, 139 C. 1902 [1] 467).
- 28) Aethyläther d. Acetyl-3'-Oxy-4-Methyldiphenylamin. Sm. 61° (J. pr. [2] 65, 53 C. 1902 [1] 578).
- 29) Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[4-Methylphenyl]propan. Sm. 86 bis 88° (B. 35, 2253 C. 1902 [2] 274).
- 30) Phenylamidoformiat d. 4-[ $\alpha$ -Oxyäthyl]-1-Aethylbenzol. Sm. 72—73° (B. 35, 2250 C. 1902 [2] 273).
- 31) Phenylamidoformiat d. 4-[ $\alpha$ -Oxyäthyl]-1,3-Dimethylbenzol. Sm. 105° (B. 35, 2248 C. 1902 [2] 273).
- 32) Phenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 97° (B. 34, 1842).
- 33) Methylphenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sd. 245 bis 248° (B. 34, 2126).
- 34) 2-Methylphenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 101 bis 102° (B. 34, 1844).

- $C_{17}H_{19}O_2N$  35) 3-Methylphenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 92,5° (B. 34, 1848).  
 36) 4-Methylphenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 124° (B. 34, 1849).  
 37) Methylphenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sd. 210 bis 211°<sub>24</sub> (B. 34, 2129).  
 38) 2-Methylphenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 62°; Sd. 210—217°<sub>17</sub> (B. 34, 1845).  
 39) 3-Methylphenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 83° (B. 34, 1848).  
 40) 4-Methylphenylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 124° (B. 34, 1849).  
 41) 2-Methylphenylamid d.  $\beta$ -Oxyisobutterphenyläthersäure. Sm. 91° (B. 34, 1847).  
 42) Aethylphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 47,5°; Sd. 224—225°<sub>17</sub> (B. 34, 2131).
- $C_{17}H_{19}O_2N_3$  9) 4-[4-Nitrobenzyliden]amido-1-Diäthylamidobenzol. Sm. 142,5° (B. 35, 1239 C. 1902 [1] 1001).
- $C_{17}H_{19}O_2Cl$  1) Di[4-Methylphenyläther] d.  $\beta$ -Chlor- $\alpha$ -Dioxypropan. Sm. 70° (Soc. 79, 1226).  
 2)  $\alpha'$ -Chlor- $\alpha$ -Benzoylcampher. Sm. 219° (Soc. 81, 167 C. 1902 [1] 352).  
 3)  $\alpha$ -Chlor- $\alpha$ -Benzoylcampher. Sm. 88° (Soc. 81, 167 C. 1902 [1] 352).
- $C_{17}H_{19}O_2Br$  1)  $\alpha'$ -Brom- $\alpha$ -Benzoylcampher. Sm. 214° (Soc. 81, 165 C. 1902 [1] 352).  
 2)  $\alpha$ -Brom- $\alpha$ -Benzoylcampher. Sm. 114° (Soc. 81, 163 C. 1902 [1] 352).
- $C_{17}H_{19}O_3J$  1)  $\alpha$ -Jod- $\alpha$ -Benzoylcampher. Sm. 136° (C. 1902 [2] 52).
- $C_{17}H_{19}O_3N$  \*9) Morphin. + 9TiCl<sub>3</sub> (C. 1902 [1] 939; C. r. 134, 1361 C. 1902 [2] 218; B. 35, 2772 C. 1902 [2] 980).  
 26)  $\beta$ -Isomorphin. Sm. 182°. 2 + C<sub>6</sub>H<sub>6</sub>O. HCl (Soc. 79, 569).  
 27)  $\alpha$ -Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[4-Methoxyphenyl]propan. Sm. 74° (B. 35, 2263 C. 1902 [2] 276).  
 28)  $\beta$ -Phenylamidoformiat d. 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol-2-Aethyläther. Sm. 66° (B. 34, 1811).  
 29) Phenylamidoformiat d. Oxyketon C<sub>10</sub>H<sub>14</sub>O<sub>2</sub> (aus Campherchinon). (B. 35, 3839 C. 1902 [2] 1462).  
 30) 4-Aethoxyphenylamid d. Oxyessig-2-Methylphenyläthersäure. Sm. 112—113° (D.R.P. 82105). — \*II, 423.  
 31) 4-Aethoxyphenylamid d. Oxyessig-3-Methylphenyläthersäure. Sm. 124—125° (D.R.P. 82105). — \*II, 429.  
 32) 4-Aethoxyphenylamid d. Oxyessig-4-Methylphenyläthersäure. Sm. 133—134° (D.R.P. 82105). — \*II, 434.
- $C_{17}H_{19}O_3N_3$  5)  $\alpha$ -Phenylamid d.  $\alpha$ -[4-Methylphenyl]hydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 96—97° (B. 34, 2338).  
 6)  $\alpha$ -Methylphenylamid d.  $\alpha$ -Phenylhydrazin- $\alpha$ - $\beta$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 117° (B. 34, 2316).  
 7)  $\alpha$ -[4-Methylphenyl]amid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 134° (B. 34, 2338).  
 8)  $\alpha$ -Benzylamid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 143—144° (B. 34, 2334).
- $C_{17}H_{19}O_4N$  6)  $\alpha$ -Nitro- $\alpha$ -Benzoylcampher. Sm. 225° u. Zers. (C. 1902 [2] 52).  
 7) 2-Nitrobenzoylcampher (Enolform). Sm. 118° (Soc. 81, 412 C. 1902 [1] 873).  
 8) 3-Nitrobenzoylcampher (Enolform). Sm. 106—107° (Soc. 81, 410 C. 1902 [1] 873).
- $C_{17}H_{19}O_5P$  1) Diäthylester d. 4-Benzoylphenylphosphinsäure. Fl. (A. 315, 47).
- $C_{17}H_{19}O_5N$  4) Diäthylester d. 5-Phenylamido-4-Oxy-2,3-Dihydro-R-Penten-1,3-Dicarbonsäure? Sm. 107° (B. 35, 3208 C. 1902 [2] 1249).
- $C_{17}H_{19}O_6N$  \*1) Diäthylester d.  $\gamma$ -Phtalylamidopropan- $\alpha$ - $\alpha$ -Dicarbonsäure (B. 34, 2901).  
 C 56,5 — H 5,3 — O 26,6 — N 11,6 — M. G. 361.
- $C_{17}H_{19}O_6N_3$  1) Pyrazolon (aus 5-Keto-1-Oxy-1-Methyl-3-[3-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonsäurediäthylester). Sm. 260° u. Zers. (A. 323, 105 C. 1902 [2] 785).



- $C_{17}H_{19}O_6N_3$  2) Pyrazolon (aus 5-Keto-1-Oxy-1-Methyl-3-[4-Nitrophenyl]hexahydrobenzol-2,4-Dicarbonensäurediäthylester). Sm. 280° u. Zers. (A. 323, 106 C. 1902 [2] 785).
- $C_{17}H_{19}NS_2$  1) Aethyl ester d. Dibenzylamidodithioameisensäure. Sm. 38°; Sd. 280—300° (B. 35, 3378 C. 1902 [2] 1363).
- $C_{17}H_{20}ON_2$  \* 29) s-Di[ $\beta$ -Phenyläthyl]harnstoff. Sm. 138,5° (J. pr. [2] 64, 308).
- 34) Aethyläther d. 4-[4-Dimethylamidobenzyliden]amido-1-Oxybenzol. Sm. 145—146° (B. 35, 3375 C. 1902 [2] 1384).
- 35) 2,2'-Di[Dimethylamido]diphenylketon. Sm. 117—118°. 2H<sub>2</sub>SO<sub>4</sub>, 2 Pikrat (J. pr. [2] 65, 340 C. 1902 [1] 1352).
- 36) Di[3-Methylamido-4-Methylphenyl]keton? Sm. 80—81°. 2HCl (B. 35, 913 C. 1902 [1] 811).
- 37) 2,5-Dimethylphenylimido-2,5-Dimethylphenylhydroxylamidomethan. Cu (B. 35, 1880 C. 1902 [2] 33).
- 38) Methyläther d. 3-[ $\beta$ -Oxypropyl]-1,2-Diphenyl-1,2-Dihydro-R-Azimethylen. Sm. 81—82° (J. pr. [2] 64, 163).
- $C_{17}H_{20}ON_4$  4) Di[Methylphenylhydrazon] d.  $\alpha\gamma$ -Dioxyaceton. Sm. 127—130 u. Zers. (B. 35, 964 C. 1902 [1] 860).
- $C_{17}H_{20}O_2N_2$  16) 2-Methyläther-4-Aethyläther d.  $\alpha$ -[2-Oxyphenyl]amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm. 107° (D.R.P. 80568). — \*II, 402.
- 17) 4-Methyläther-2-Aethyläther d.  $\alpha$ -[2-Oxyphenyl]amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm. 85° (D.R.P. 80568). — \*II, 402.
- 18) Methyläthyläther d.  $\alpha$ -[4-Oxyphenyl]-amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm. 98° (D.R.P. 80568). — \*II, 403.
- 19)  $\alpha$ -Phenylbenzylhydrazon- $\beta\gamma$ -Dioxybutan. Sm. 116° (B. 35, 1908 C. 1902 [2] 22).
- 20) Pyrazol (aus 5-Keto-1-Oxy-2,4-Diacetyl-1-Methyl-3-Phenylhexahydrobenzol). Sm. 220° u. Zers. (A. 323, 111 C. 1902 [2] 786).
- 21) Verbindung (aus d-Benzylidencampheroxim). Sm. 117° (C. 1902 [1] 1296).
- $C_{17}H_{20}O_2N_4$  \* 3) Di[Phenylhydrazon] d. Methyltetrose. Sm. 172—173° (B. 35, 2364 C. 1902 [2] 511).
- 6) Di[Phenylhydrazon] d. Pentantriolon. Sm. 125° (B. 35, 2368 C. 1902 [2] 511).
- $C_{17}H_{20}O_3N_2$  6)  $\alpha$ -Oxy-3-Nitro-4'-Diäthylamidodiphenylmethan. Sm. 65° (D.R.P. 45806). — \*II, 658.
- 7)  $\alpha$ -Oxy-4-Nitro-4'-Diäthylamidodiphenylmethan. Sm. 92° (D.R.P. 45806). — \*II, 658.
- 8) Phenylbenzylhydrazon d. 1-Erythrose. Sm. 105° (B. 34, 1365).
- 9) Phenylbenzylhydrazon d. 1-Threose. Sm. 194,5° (B. 34, 1370).
- $C_{17}H_{20}O_3N_4$  9) Di[Phenylhydrazon] d. Apiose. Sm. 155° (156—157°) (A. 318, 129; A. 321, 75 C. 1902 [1] 912).
- 10)  $\alpha$ -Phenylhydrazid d.  $\alpha$ -[4-Methylphenyl]hydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 174—175° (C. 1901 [1] 936).
- 11)  $\alpha$ -[4-Methylphenyl]hydrazid d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 200° (C. 1901 [1] 936).
- 12)  $\alpha$ -[ $\beta$ -Methyl- $\beta$ -Phenylhydrazid] d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Aethylester. Sm. 164—165° (B. 34, 2315).
- $C_{17}H_{20}O_4N_2$  8) Pyrazolon (aus 5-Keto-1-Oxy-1-Methyl-3-Phenylhexahydrobenzol-2,4-Dicarbonensäurediäthylester). Sm. 257° u. Zers. (A. 323, 104 C. 1902 [2] 785).
- 9) Pyrazolon (aus d. isom. 5-Keto-1-Oxy-1-Methyl-3-Phenylhexahydrobenzol-2,4-Dicarbonensäurediäthylester). Sm. 140° (A. 323, 104 C. 1902 [2] 785).
- 10) Diäthylester d. 6-Methyl-1,4-Benzdiazin-2,3-Di[Methylcarbon-säure]. Sm. 59° (Bl. [3] 25, 721).
- $C_{17}H_{20}O_4N_4$  \* 1) Di[2-Nitro-4-Dimethylamidophenyl]methan. Sm. 195° (B. 34, 4315 C. 1902 [1] 323).
- 5)  $\beta$ -Phenylhydrazid d.  $\alpha$ -[4-Methoxyphenyl]hydrazin- $\alpha$ -Carbon-säure- $\beta$ -Carbonsäureäthylester. Sm. 184° (B. 34, 2323).
- 6)  $\alpha$ -[4-Methoxyphenyl]hydrazid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Carbonsäure- $\beta$ -Carbonsäureäthylester. Sm. 161—162° (B. 34, 2322).
- $C_{17}H_{20}O_5N_2$  5) Verbindung (aus Formaldehyd u. Anthranilsäuremethylester). Sm. 117° (J. pr. [2] 63, 570).

- $C_{17}H_{20}O_8N_2$  \*3) Antipyringlykuronsäure.  $Ba + BaCl_2 + H_2O$  (*H.* 32, 117).  
 5) Tetraäthylester d. 2,3-Dicyan-R-Trimethylen-1,1,2,3-Tetracarbon-säure (*B.* 34, 3715 *C.* 1902 [1] 50).
- $C_{17}H_{20}NCl$  3) d- $\alpha$ -Methylallylphenylbenzylammoniumchlorid.  $2 + PtCl_4$  (*Soc.* 79, 838).
- $C_{17}H_{20}NBr$  \*1) i- $\alpha$ -Methylallylphenylbenzylammoniumbromid (*Soc.* 79, 834).  
 \*2) d- $\alpha$ -Methylallylphenylbenzylammoniumbromid. Sm. 165—167° (*Soc.* 79, 833).  
 \*3) l- $\alpha$ -Methylallylphenylbenzylammoniumbromid. Sm. 166—168° (*Soc.* 79, 834).
- $C_{17}H_{20}NJ$  \*1)  $\alpha$ -Methylallylphenylbenzylammoniumjodid (*B.* 35, 766 *C.* 1902 [1] 719; *B.* 35, 885 *C.* 1902 [1] 866).  
 \*2)  $\beta$ -Methylallylphenylbenzylammoniumjodid (*B.* 35, 767 *C.* 1902 [1] 719; *B.* 35, 885 *C.* 1902 [1] 866).  
 \*4) d- $\alpha$ -Methylallylphenylbenzylammoniumjodid. Sm. 147° u. Zers. (*Soc.* 79, 830).  
 \*5) l- $\alpha$ -Methylallylphenylbenzylammoniumjodid. Sm. 147° u. Zers. (*Soc.* 79, 833).
- $C_{17}H_{20}N_2S$  \*8) s-Di[2,4-Dimethylphenyl]thioharnstoff. Sm. 152° (*B.* 34, 2601).  
 \*18) 4,4'-Di[Dimethylamido]diphenylthioketon. Sm. 202° (*B.* 35, 377 *C.* 1902 [1] 588).  
 20) Di[3-Methylamido-4-Methylphenyl]thioketon. Sm. 176—177°. HCl, 2HCl (*B.* 35, 914 *C.* 1902 [1] 811).  
 21) Leukothiopyronin. Sm. 130° (*J. pr.* [2] 65, 505 *C.* 1902 [2] 372).
- $C_{17}H_{20}ClI$  1) 4-Isoamylidiphenyljodoniumchlorid. Zers. 159°.  $+ HgCl_2$ ,  $2 + PtCl_4$  (*B.* 34, 3685).
- $C_{17}H_{20}BrJ$  1) 4-Isoamylidiphenyljodoniumbromid. Sm. 145° (*B.* 34, 3685).
- $C_{17}H_{21}ON$  \*12) d- $\alpha$ -Methylallylphenylbenzylammoniumhydrat. Nitrat, d-Campher-sulfonat (*Soc.* 79, 829).  
 \*13) l-Methylallylphenylbenzylammoniumhydrat. l-Camphersulfonat (*Soc.* 79, 829).  
 14) i- $\alpha$ -Methylallylphenylbenzylammoniumhydroxyd. Salze siehe (*Soc.* 75, 1128; 79, 836; *B.* 32, 3563). — \*II, 291.  
 15) i- $\beta$ -Methylallylphenylbenzylammoniumhydroxyd. Salze siehe (*B.* 32, 522, 3565). — \*II, 292.  
 16) l-Benzoylamidocamphen. Sm. 157° (*Soc.* 79, 650).  
 17) d-Benzylidencampheroxim. Sm. 197° (*C.* 1902 [1] 1296).  
 18) 2-Naphtyläther d. 1-[ $\beta$ -Oxyäthyl]hexahydropyridin. Sm. 47—49°. HCl, (2HCl,  $PtCl_4$ ), Bichromat, Pikrat (*B.* 34, 3556).
- $C_{17}H_{21}ON_3$  5) 3,9-Di[Dimethylamido]-4-Methylphenoxazin (*C.* 1902 [2] 378).  
 6) Amid d.  $\alpha$ -Methylphenylamido- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Sm. 170° (*B.* 35, 3575 *C.* 1902 [2] 1384).
- $C_{17}H_{21}OBr$  3) d-Brombenzylcampher. Sm. 94—95° (*C. r.* 133, 81; *Bl.* [3] 27, 679 *C.* 1902 [2] 430).  
 4) isom. d-Brombenzylcampher. Sm. 90—91° (*C. r.* 133, 81).
- $C_{17}H_{21}OJ$  1) 4-Isoamylidiphenyljodoniumhydroxyd. Salze siehe (*B.* 34, 3684).
- $C_{17}H_{21}O_2N_3$  2) 2-Nitro-4,4'-Di[Dimethylamido]diphenylmethan. Sm. 95° (*B.* 34, 4314 *C.* 1902 [1] 323).  
 3) Diäthyläther d. Di[4-Oxyphenyl]guanidin. Sm. 122,5°. HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ),  $H_2SO_4$  (*D. R. P.* 66550). — \*II, 406.
- $C_{17}H_{21}O_2N_5$  2) 4'-Nitro-4,6-Di[Dimethylamido]-3-Methylazobenzol. Sm. 126—127° (*Soc.* 81, 656 *C.* 1902 [1] 1279).
- $C_{17}H_{21}O_3N$  4) Phenylamidoformiat d. Ketooxypinen. Sm. 125° (*B.* 35, 2996 *C.* 1902 [2] 1048).
- $C_{17}H_{21}O_4N$  \*1) Atroscin  $+ 2H_2O$ . Sm. 82—83°.  $+ H_2O$  (Sm. 56—57°);  $+ 2H_2O$  (Sm. 36—37°). HCl, (HCl,  $AuCl_3$ ),  $HBr + \frac{1}{2}[3]H_2O$ ,  $HJ + \frac{1}{2}H_2O$  (*J. pr.* [2] 64, 370; *J. pr.* [2] 64, 566 *C.* 1902 [1] 266; *J. pr.* [2] 64, 569 *C.* 1902 [1] 267; *J. pr.* [2] 66, 194 *C.* 1902 [2] 942).  
 \*2) i-Scopolamin  $+ H_2O$ . Sm. 56—56,5° (*J. pr.* [2] 64, 566, 569 *C.* 1902 [1] 267).  
 \*3) l-Scopolamin.  $HBr$  (*B.* 34, 1025).  
 \*4) Cocain. (2HCl,  $TiCl_3$ ), (HJ,  $J_2$ ) (*C.* 1901 [1] 1178; *B.* 35, 2771 *C.* 1902 [2] 980; *Bl.* [3] 27, 985 *C.* 1902 [2] 1215).

- $C_{17}H_{21}O_4N$  \*7) Hyoscin.  $HCl + 2H_2O$ ,  $HBr + \frac{1}{2}[1, 2 u. 3]H_2O$ ,  $HJ + \frac{1}{2}H_2O$ ,  $H_2SO_4 + 2H_2O$  (*J. pr.* [2] 64, 354).  
 20) r-Cocain. Sm. 80°.  $HCl$  (*B.* 34, 1461).  
 21) Acetat d. Chromosantoninoxim. Sm. 200—201° (*G.* 32 [1] 338 *C.* 1902 [1] 1406).
- $C_{17}H_{21}O_5N$  \*6)  $\gamma$ -Piperidid d.  $\beta$ -Phenylpropan- $\alpha\alpha\gamma$ -Tricarbonsäure. Sm. 146° (*A.* 320, 92).
- $C_{17}H_{21}O_5P$  1)  $\beta\beta$ -Di[4-Methylphenoxy]isopropylphosphorige Säure. Sm. 111 bis 112° (*Soc.* 79, 1227).
- $C_{17}H_{21}O_6Br$  1) Diäthylester d. 6-Brom-5-Isopropyl-2-Methyl-1,4-Benzochinon-3-Methyldicarbonsäure. Sm. 78°. *Ba* (*B.* 34, 1558).
- $C_{17}H_{22}ON_2$  \*1)  $\alpha$ -Oxydi[4-Dimethylamidophenyl]methan (*B.* 35, 359 *C.* 1902 [1] 587).  
 6)  $\alpha$ -Oxydi[3-Methylamido-4-Methylphenyl]methan? Sm. 160—161° (*B.* 35, 913 *C.* 1902 [1] 811).  
 7)  $\alpha$ -Benzylidenamidocampherloxim. Sm. 153—154° (*Soc.* 81, 555 *C.* 1902 [1] 1058, 1334).  
 8) Phenylharnstoffderivat d. 1-Amidocamphen. Sm. 213° (*Soc.* 79, 651).
- $C_{17}H_{22}O_2N_2$  \*7) Di[2,5-Dimethylphenylhydroxylamido]methan (*B.* 35, 1879 *C.* 1902 [2] 33).  
 11) Diäthyläther d. Di[ $\beta$ -Amido- $\rho$ -Oxyphenyl]methan ( $OH:NH_2 = 1:2$ ). 2HCl (*D. R. P.* 70402). — \*II, 604.  
 12) Di[2,4-Dimethylphenylhydroxylamido]methan. Sm. 128—129° (*B.* 35, 1882 *C.* 1902 [2] 33).  
 $C_{17}H_{22}O_6N_4$  C 54,0 — H 5,8 — O 25,4 — N 14,8 — M. G. 378.  
 1) Aethylester d. Benzoylamidoacetylamidoacetylamidoacetylamidoacetylamidoessigsäure. Sm. 213° (*B.* 35, 3227 *C.* 1902 [2] 1043).
- $C_{17}H_{22}N_2S$  1)  $\alpha$ -Merkapto-4,4'-Di[Dimethylamido]diphenylmethan. Sm. 81° (82°) (*D. R. P.* 58198, 58277; *B.* 35, 882 *C.* 1902 [1] 589). — \*II, 659.
- $C_{17}H_{21}JAs$  1) Diäthylphenyl-4-Methylphenylarsoniumjodid. Sm. 148° (*A.* 321, 159 *C.* 1902 [2] 43).
- $C_{17}H_{21}ON$  23) 3-Keto-2-Phenylamidomethylen-4-Isopropyl-1-Methylhexahydrobenzol (Anilidomethylenmenthon). *Fl.* (*C.* 1901 [1] 1025).  
 24) Oxim d. isom. Benzylidenmenthon. Sm. 153° (*C. r.* 134, 1438 *C.* 1902 [2] 280).  
 25) Oxim d. isom. Benzylidenmenthon. Sm. 172° (*C. r.* 134, 1437 *C.* 1902 [2] 280).  
 26) 4-Methylphenylamid d. Pulegensäure. Sm. 143° (*Bl.* [3] 27, 311 *C.* 1902 [1] 1223).
- $C_{17}H_{23}O_2N$  \*7) Phenylamidoformiat d. Terpeneol. Sm. 112—113° (*B.* 35, 2149 *C.* 1902 [2] 279).  
 13) Benzoyllupinin. Sm. 49—50°.  $HCl$  (*Ar.* 240, 343 *C.* 1902 [2] 650; *D. R. P.* 129561 *C.* 1902 [1] 790).  
 14) Phenylamidoformiat d.  $\beta$ -[4-Oxy-4-Methylhexahydrophenyl]propen. Sm. 85° (*B.* 35, 2149 *C.* 1902 [2] 279).  
 15) Phenylamidoformiat d. isom. i-Terpeneol. Sm. 85° (*C.* 1901 [1] 1008).
- $C_{17}H_{23}O_2Br$  1) d-Phenylbromhomocampolsäure. Sm. 135° (*C. r.* 133, 80).  
 2) l-Menthylester d. 2-Brombenzol-1-Carbonsäure (*C.* 1902 [2] 1238).  
 3) l-Menthylester d. 3-Brombenzol-1-Carbonsäure (*C.* 1902 [2] 1238).  
 4) l-Menthylester d. 4-Brombenzol-1-Carbonsäure (*C.* 1902 [2] 1238).
- $C_{17}H_{23}O_3N$  \*3) i-Atropin. ( $HCl$ ,  $TlCl_3$ ), ( $HJ$ ,  $TlJ_3$ ) (*C.* 1901 [2] 128; *B.* 35, 1114 *C.* 1902 [1] 937; *B.* 35, 2771 *C.* 1902 [2] 980).  
 \*7) Hyoscin (oder  $C_{17}H_{21}O_4N$ ) (*J. pr.* [2] 64, 274, 354; *J. pr.* [2] 66, 194 *C.* 1902 [2] 942).  
 \*8) Hyoscyamin. ( $HCl$ ,  $AuCl_3$ ), ( $HJ$ ,  $TlJ_3$ ) (*Soc.* 79, 71; *B.* 34, 1025; *C.* 1901 [2] 128; *B.* 35, 1114 *C.* 1902 [1] 937; *B.* 35, 2770 *C.* 1902 [2] 980).  
 \*9) Mandragorin (*B.* 34, 1023).  
 14) d-Hyoscyamin. Sm. 106° (*Ar.* 240, 498 *C.* 1902 [2] 1327).  
 15) l-Hyoscyamin. Sm. 103° (*Ar.* 240, 498 *C.* 1902 [2] 1327).  
 16) Pseudohyoscyamin. ( $2HCl$ ,  $PtCl_4 + 2H_2O$ ), ( $HCl$ ,  $AuCl_3$ ) (*J. pr.* [2] 64, 282).  
 17) Phenylamidoformiat d. Camphenglykol. Sm. 147—147,5° (*J. r.* 28, 65). — \*II, 180.

- $C_{17}H_{20}O_3Br$  4) d-4-Bromphenyloxyhomocampholsäure. Sm. 100° (*C. r.* 133, 83).  
 $C_{17}H_{20}O_4N$  5) l-Menthylester d. 3-Nitrobenzol-1-Carbonsäure (*C.* 1902 [2] 1238).  
 $C_{17}H_{20}O_5N$  4) Acetat d. Isophotosantonsäurelaktinoxim. Sm. 170° (*G.* 32 [1] 317 *C.* 1902 [1] 1405).  
 $C_{17}H_{24}O_2N_2$  4) Phenylamidoformiat d. Lupinin. Sm. 94—95° (*B.* 35, 1915 *C.* 1902 [2] 132).  
 5) Phenylhydrazon d. Methylester  $C_{11}H_{18}O_3$  (aus Campherchinon). Sm. 99—100° (*B.* 35, 3832 *C.* 1902 [2] 1461).  
 $C_{17}H_{24}O_6N_2$  C 58,0 — H 6,8 — O 27,3 — N 7,9 — M. G. 352.  
 1) Verbindung (aus Aethylidenmalonsäurediäthylester u.  $\beta$ -Amidocroton-säureäthylester). Sm. 155—157° (*B.* 35, 2183 *C.* 1902 [2] 374).  
 $C_{17}H_{24}N_3S$  \*2) s-Phenylcamphylthioharnstoff. Sm. 120° (*B.* 35, 832 *C.* 1902 [1] 713).  
 10) isom. s-Phenylthujylthioharnstoff. Sm. 107—108° (*B.* 35, 832 *C.* 1902 [1] 713).  
 $C_{17}H_{25}ON$  11) Phenylthioharnstoff d. Camphidin. Sm. 142—145° (*B.* 34, 3285).  
 4) Benzoylthujamenthylamin. Sm. 106—107° (*A.* 323, 354 *C.* 1902 [2] 1205).  
 5) Base (aus Anilidomethylencampher). Sd. 231°<sub>30</sub> (*C.* 1901 [1] 1024).  
 6) Benzoylderivat d. Base  $C_{10}H_{21}N$ . Sm. 95° (*A.* 324, 290 *C.* 1902 [2] 1506).  
 $C_{17}H_{25}O_3N_3$  C 67,3 — H 8,2 — O 10,6 — N 13,9 — M. G. 303.  
 1) 3,5-Dicyan-2,6-Diketo-4-Methyl-4-Nonylhexahydropyridin. Sm. 136,5—137,5°.  $NH_4$  (*C.* 1901 [1] 580).  
 $C_{17}H_{25}O_3N$  7) Amid d. Acetylisoalantolsäure. Sm. 212° (*B.* 34, 779). — \*II, 939.  
 $C_{17}H_{26}ON_3$  6) s-Phenylthujamenthylharnstoff (*A.* 323, 355 *C.* 1902 [2] 1205).  
 $C_{17}H_{26}O_3Br_2$  \*1) Tetraäthylester d.  $\alpha\epsilon$ -Dibrompentan- $\alpha\alpha\epsilon\epsilon$ -Tetracarbonsäure. Sd. 251—253°<sub>12</sub> (*B.* 35, 2072 *C.* 1902 [2] 218).  
 $C_{17}H_{26}N_2S$  5) s-Phenylthujamenthylthioharnstoff. Sm. 112° (*A.* 323, 355 *C.* 1902 [2] 1205).  
 $C_{17}H_{27}ON$  3) 3-Oxy-2-Phenylamidomethyl-4-Isopropyl-1-Methylhexahydro-benzol. Sd. 247—248°<sub>20</sub> (*C.* 1901 [1] 1025).  
 $C_{17}H_{27}O_2N$  3) Benzoylderivat d. Base  $C_{10}H_{25}ON$ . Sm. 109° (*A.* 324, 304 *C.* 1902 [2] 1507).  
 $C_{17}H_{27}O_7N$  C 57,1 — H 7,5 — O 31,4 — N 3,9 — M. G. 357.  
 1)  $\alpha$ -Diäthylmonamid d. Propen- $\alpha\alpha\gamma\gamma$ -Tetracarbonsäure- $\alpha\gamma\gamma$ -Triäthylester? Fl. (*A.* 285, 101). — \*I, 793.  
 $C_{17}H_{27}N_3S$  \*2)  $\alpha$ -l-Menthylamido- $\beta$ -Phenylthioharnstoff. Sm. 160° (*J. pr.* [2] 64, 122).  
 $C_{17}H_{30}O_2N_3$  C 65,6 — H 10,6 — O 10,3 — N 13,5 — M. G. 311.  
 1)  $\delta$ -Nitro- $\delta$ -Di[1-Piperidylmethyl]- $\beta$ -Methylbutan. Sm. 40° (*C.* 1902 [1] 401).  
 $C_{17}H_{33}NS$  1) Cetylrhodanid. Sm. 15—15,5°; Sd. 242—249°<sub>30</sub> (*C.* 1901 [2] 275).  
 $C_{17}H_{34}O_4S_2$  1) Äthylester d.  $\gamma\gamma$ -Dimerkaptovaleriandiisoamyläthersäure. Fl. (*B.* 34, 2654).  
 2) Äthylester d.  $\beta\beta$ -Dimerkaptovaleriandiisoamyläthersäure. Fl. (*B.* 34, 2662).  
 $C_{17}H_{34}O_6S_2$  1) Äthylester d.  $\gamma\gamma$ -Di[Isoamylsulfon]valeriansäure. Sm. 46° (*B.* 34, 2654).  
 2) Äthylester d.  $\beta\beta$ -Di[Isoamylsulfon]- $\alpha$ -Methylbuttersäure. Fl. (*B.* 34, 2663).

- $C_{17}H_{11}ON_2Cl$  2) 5,7-Anhydro-9-Chlor-5-Oxy- $\alpha\beta$ -Naphtophenazin-7-Methyl-oxdhydrat (*B.* 34, 1100).  
 3) 5,12-Anhydro-10-Chlor-5-Oxy- $\alpha\beta$ -Naphtophenazin-12-Methyl-oxdhydrat (*B.* 34, 1101).  
 $C_{17}H_{12}ONJ$  1) Jodmethylat d. Fluorenchinolin +  $H_2O$ . Zers. oberh. 240° (*B.* 35, 3282 *C.* 1902 [2] 1261).  
 $C_{17}H_{12}ON_3Cl$  1) Verbindung [aus Chinolin u.  $\alpha$ -Oximido- $\alpha$ -(2-Chlorphenyl)essigsäurenitril]. Sm. 76° (*J. pr.* [2] 66, 378 *C.* 1902 [2] 1503).  
 2) Verbindung [aus Chinolin u.  $\alpha$ -Oximido- $\alpha$ -(4-Chlorphenyl)essigsäurenitril]. Sm. 111° (*J. pr.* [2] 66, 374 *C.* 1902 [2] 1502).

- $C_{17}H_{12}O_3N_2Cl_4$  1) Acetat d. 2,4,5,6-Tetrachlor-3-Oxy-1-Acetylphenylhydrazon-methylbenzol. Sm. 148° (*B.* 34, 4124 *C.* 1902 [1] 190).
- $C_{17}H_{12}O_4N_2Cl$  1) Azoverbindung (aus 2-Oxynaphtalin u. 3-Chlor-2-Nitro-1-Oxybenzol-methyläther). Sm. 249—250° (*Soc.* 81, 995 *C.* 1902 [2] 697).
- $C_{17}H_{12}O_6N_2S$  2)  $\gamma$ -[3-Nitrobenzyliden]amidonaphtolsulfonsäure (D.R.P. 135335 *C.* 1902 [2] 1167).
- 3)  $\gamma$ -[4-Nitrobenzyliden]amidonaphtolsulfonsäure (D.R.P. 135335 *C.* 1902 [2] 1166).
- $C_{17}H_{13}ONBr_2$  1) Nitril d.  $\beta$ -Dibrom- $\alpha$ -Phenyl- $\beta$ -[3-Oxyphenyl]akrylälthyläthersäure. Sm. 119° (*B.* 34, 3087).
- $C_{17}H_{13}O_3NCl_4$  \*1) Methyl ester d. 3,4,5,6-Tetrachlor-1-[4-Dimethylamidobenzoyl]-benzol-2-Carbonsäure. Sm. 167° (*Bl.* [3] 25, 600).
- $C_{17}H_{13}O_3N_2Br_3$  1) Acetat d. 2,4,6-Tribrom-3-Oxy-1-Acetylphenylhydrazon-methylbenzol. Sm. 107—110° (*A.* 321, 36 *C.* 1902 [1] 929).
- $C_{17}H_{13}O_4N_2Br$  1)  $\beta$ -Brom- $\gamma$ -Benzoylhydrazon- $\alpha$ -Oxycrotonphenyläthersäure (Mucophenoxybromsäurebenzoylhydrazon). Sm. 146° u. Zers. (*B.* 34, 1016).
- $C_{17}H_{13}O_3NS$  1) 6-Benzoylamido-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 127141 *C.* 1902 [1] 151).
- $C_{17}H_{13}O_{10}N_7S$  1) O-Isobutyläther-S-2,4,6-Trinitrophenyläther d. 2,4,6-Trinitrophenylimidomerkaptooxymethan. Sm. 173° (*Soc.* 81, 440 *C.* 1902 [1] 989).
- $C_{17}H_{14}ONCl$  1) Äthyläther d. 1-Chlor-6- oder 7-Oxy-3-Phenylisochinolin. Sm. 113—114° (*B.* 34, 3744 *C.* 1902 [1] 40).
- $C_{17}H_{14}ONBr_3$  1) Nitril d.  $\alpha\beta$ -Dibrom- $\alpha$ -Phenyl- $\beta$ -[ $\beta$ -Dibrom-2-Oxyphenyl]-propionäthyläthersäure. Sm. 144° u. Zers. (*B.* 34, 3088).
- $C_{17}H_{14}ON_3Cl$  2) 7-Methyloxydhydrat d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphthophenazin. Chlorid, 2 Chlorid +  $PtCl_4$ , Nitrat, Bichromat (*B.* 34, 1097).
- $C_{17}H_{14}O_2N_2S_4$  1) Methyl ester d. Benzoylamidodithioameisensäure. Sm. 130 bis 131° (*C.* 1902 [1] 1401).
- $C_{17}H_{14}O_2N_3Cl$  1) 5-Chlor- $\beta$ -Nitro-3-Methyl-1-Phenyl-4-Benzylpyrazol. Sm. 128° (*B.* 34, 1308).
- $C_{17}H_{14}O_4N_2S$  1) 2-Naphtylamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 161° (*B.* 34, 3004).
- $C_{17}H_{14}O_4N_2S_2$  1) 6-[ $\beta$ -Phenylthioureido]-1-Oxynaphtalin-3-Sulfonsäure (D.R.P. 132025 *C.* 1902 [2] 80).
- $C_{17}H_{15}O_2NS$  4) Äthylester d.  $\alpha$ -Rhodandiphenylessigsäure. *Fl.* (*C.* 1902 [2] 578).
- $C_{17}H_{15}O_3NS$  5) 1-[4-Methylphenyl]amidonaphtalin-4-Sulfonsäure. Sm. 194° (*B.* 34, 3185).
- 6) 1-[4-Methylphenylamido]naphtalin- $\beta$ -Sulfonsäure (*J. pr.* [2] 64, 502 *C.* 1902 [1] 257).
- 7) 2-[2-Methylphenylamido]naphtalin-5-Sulfonsäure. Na, Ca (D.R.P. 57370). — \*II, 345.
- 8) 2-[2-Methylphenylamido]naphtalin-8-Sulfonsäure. Na, Ca (D.R.P. 57370). — \*II, 345.
- $C_{17}H_{15}O_4NS$  1) 7-[2-Methylphenyl]amido-1-Oxynaphtalin-3-Sulfonsäure (*C.* 1901 [2] 670).
- $C_{17}H_{15}O_4JHg$  1) Dibenzot d. Quecksilber- $\beta\gamma$ -Dioxypropyljodid. Sm. 100° (*B.* 34, 1393).
- $C_{17}H_{16}ONCl$  1) 1-Phenylchloracetyl-amido-2,3-Dihydroinden. Sm. 149—150° (*Soc.* 79, 445).
- 2) isom. 1-Phenylchloracetyl-amido-2,3-Dihydroinden. Sm. 123 bis 124° (*Soc.* 79, 446).
- $C_{17}H_{16}O_2N_2S$  3) Methyläther d.  $\alpha$ -Benzoyl- $\beta$ -[ $\alpha$ -Oxy- $\beta$ -Phenyläthyliden]thioharnstoff. Sm. 116—117° (*Am. Soc.* 22, 376). — \*II, 815.
- 4) 1-Naphtylamid d. 2-Amido-1-Methylbenzol-4-Sulfonsäure. HCl (*B.* 34, 3004).
- $C_{17}H_{16}O_2N_2S_2$  1) Benzoyldithiocarbaminsäuremethylacetanilid. Sm. 152° (*C.* 1901 [2] 276).
- $C_{17}H_{17}ONS_2$  1) 1-Phenyl-2-[2-Methylphenyl]-3-Äthylimidoxanthid. Sm. 76 bis 77° (*B.* 35, 2472 *C.* 1902 [2] 441).
- 2) 3,5-Dimethylbenzylester d. Benzoylamidodithioameisensäure. Sm. 114,5° (*Am.* 26, 205).



- $C_{17}H_{17}ON_2J$  1) Jodäthylat d.  $\alpha$ -Imido- $\alpha$ -Benzoylmethylenamido- $\alpha$ -Phenylmethan. Zers. bei  $180^\circ$  (B. 34, 3026).
- $C_{17}H_{17}O_2NBr_2$  3, 6-Dibrom-5-Oxy-1-Acetylphenylamido-2, 4-Dimethylbenzol. Sm.  $216-218^\circ$  (B. 35, 136 C. 1902 [1] 466).
- $C_{17}H_{17}O_2N_4Cl$  1) 3-Chlor-4, 6-Di[Acetylamido]-2-Methylazobenzol. Sm.  $251^\circ$  (Soc. 81, 98 C. 1902 [1] 186).
- $C_{17}H_{17}O_2N_4Br$  1) 4-Brom-4, 6-Di[Acetylamido]-3-Methylazobenzol. Sm.  $228^\circ$  (Soc. 81, 1384 C. 1902 [2] 1190).
- $C_{17}H_{17}O_4N_3S$  1) 6-Methyläther d. 1,3-Di[Acetylamido]-6-Oxyphenazthioniumhydroxyd. Bichromat, Methylsulfat (A. 322, 62 C. 1902 [2] 225).
- $C_{17}H_{17}O_3NS$  1) 4-Diacetylamidophenylester d. 1-Methylbenzol-4-Sulfonsäure. Sm.  $101^\circ$  (B. 34, 238).
- $C_{17}H_{17}N_2ClS$  1)  $\alpha$ -[ $\beta$ -Chlorallyl]- $\beta$ -Phenyl- $\beta$ -Benzylthioharnstoff. Sm.  $77-78^\circ$  (Soc. 79, 558).
- $C_{17}H_{18}ON_2S$  7) Aethyläther d.  $\alpha$ -Acetylphenylamido- $\alpha$ -Phenylimido- $\alpha$ -Merkaptomethan. Fl. (Am. Soc. 22, 197). — \*II, 198.
- 8) Aethyläther d. Benzoylimido-4-Methylphenylamidomerkaptomethan (Benzoyl-p-Tolylthioläthylpseudothioharnstoff). Sm.  $93^\circ$  (Am. 26, 414).
- 9) Propyläther d. Benzoylimidophenylamidomerkaptomethan (Benzoylphenylthiolpropylpseudothioharnstoff). Sm.  $78-79^\circ$  (Am. 26, 415).
- $C_{17}H_{18}O_2NCl$  10) 3, 6-Di[Dimethylamido]thioxanthon. Sm.  $288^\circ$ .  $+ 2CHCl_3$ ,  $2HCl + 3\frac{1}{2}H_2O$ ,  $(2HCl, PtCl_4)$  (J. pr. [2] 65, 506 C. 1902 [2] 372).
- 2) Benzoylderivat d. isom. Chlornitrocampphananhydrid. Sm.  $166^\circ$  (Soc. 79, 1007).
- $C_{17}H_{18}O_2N_2S$  5) S-Aethyläther d. Benzoylimido-4-Methoxyphenylamidomerkaptomethan (Benzoyl-p-Anisylthioläthylpseudothioharnstoff). Sm. 99 bis  $100^\circ$  (Am. 26, 414).
- $C_{17}H_{18}O_3NBr$  \* 1) Brommorphin. Sm.  $170^\circ$  (Soc. 79, 573).
- $C_{17}H_{18}O_3N_4Br_2$  4) Di[4-Bromphenylhydrazon] d. Apiose. Sm.  $211-212^\circ$  ( $209^\circ$ ) (A. 318, 129; A. 321, 76 C. 1902 [1] 912).
- $C_{17}H_{18}O_4NCl$  1)  $\alpha$ -Chlor- $\alpha$ -[3-Nitrobenzoyl]campher. Sm.  $72-74^\circ$  (Soc. 81, 412 C. 1902 [1] 873).
- 2)  $\alpha$ -Chlor- $\alpha$ -[3-Nitrobenzoyl]campher. Sm.  $110^\circ$  (Soc. 81, 413 C. 1902 [1] 873).
- $C_{17}H_{18}O_4NBr$  1)  $\alpha$ -Brom- $\alpha$ -[3-Nitrobenzoyl]campher. Sm.  $93-94^\circ$  (Soc. 81, 409 C. 1902 [1] 873).
- 2)  $\alpha$ -Brom- $\alpha$ -[3-Nitrobenzoyl]campher. Sm.  $101-102^\circ$  (Soc. 81, 409 C. 1902 [1] 873).
- $C_{17}H_{18}O_6NBr$  1) Diäthylester d.  $\alpha$ -Brom- $\gamma$ -Phtalylamidopropan- $\alpha\alpha$ -Dicarbonsäure. Sm.  $76-78^\circ$ ; Zers. bei  $220-230^\circ$  (B. 34, 2901).
- $C_{17}H_{18}O_6NS_2$  1)  $\alpha\alpha$ -Di[Aethylsulfon]- $\alpha$ -Phenyl- $\alpha$ -[3-Nitrophenyl]methan. Sm.  $175^\circ$  (B. 35, 2351 C. 1902 [2] 517).
- 2)  $\alpha\alpha$ -Di[Aethylsulfon]- $\alpha$ -Phenyl- $\alpha$ -[4-Nitrophenyl]methan. Sm.  $193,5^\circ$  (B. 35, 2351 C. 1902 [2] 517).
- $C_{17}H_{19}N_2ClS$  2) Thiopyrrolchlorid.  $HCl$ ,  $2 + PtCl_4$  (J. pr. [2] 65, 504 C. 1902 [2] 372).
- $C_{17}H_{20}ON_3Cl$  1) 3, 9-Di[Dimethylamido]-4-Methylphenoxazoniumchlorid (C. 1902 [2] 378).
- $C_{17}H_{20}ON_3J$  1) 3, 9-Di[Dimethylamido]-4-Methylphenoxazoniumjodid (C. 1902 [2] 378).
- $C_{17}H_{20}O_2NCl$  2) Benzoat d.  $\beta$ -Chlorcampheroxim. Sm.  $86^\circ$  (Soc. 81, 273 C. 1902 [1] 660, 809).
- $C_{17}H_{20}O_2NBr$  1) Benzoat d.  $\beta$ -Bromcampheroxim. Sm.  $71-73^\circ$  (Soc. 81, 271 C. 1902 [1] 660, 809).
- $C_{17}H_{20}O_4N_2S$  4) Diäthyläther d. Di[4-Oxyphenyl]thioharnstoff. Sm.  $169^\circ$  (D.R.P. 66550; J. pr. [2] 65, 378 C. 1902 [1] 1329). — \*II, 406.
- $C_{17}H_{20}O_4N_4S$  1)  $\alpha$ -Phenylhydrazid d.  $\alpha$ -[4-Methylphenyl]hydrazin- $\alpha$ -Thiocarbonsäure- $\beta$ -Carbonsäureäthylester. Sm.  $125^\circ$  (B. 34, 2331).
- 2)  $\alpha$ -[4-Methylphenyl]hydrazid d.  $\alpha$ -Phenylhydrazin- $\alpha$ -Thiocarbonsäure- $\beta$ -Carbonsäureäthylester. Sm.  $133^\circ$  (B. 34, 2330).
- $C_{17}H_{20}O_4NP$  1) Diäthylester d. 4-[ $\alpha$ -Oxidobenzyl]phenylphosphinsäure (A. 315, 48).

- $C_{17}H_{21}O_3N_2Cl$  1) Benzoat d. 1-Chlor-1-Nitrohydroxylaminecamphan. Sm. 164° (Soc. 79, 1008).
- $C_{17}H_{21}O_3N_2Br$  1) Benzoat d. Verbindung  $C_{19}H_{17}O_2N_2Br$ . Sm. 180° u. Zers. (Soc. 79, 656).
- $C_{17}H_{21}O_4NS$  1)  $\beta$ -Oxyäthyl- $\beta$ -Phenoxyäthylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 73° (C. 1901 [1] 1074).
- $C_{17}H_{21}O_4NS_2$  3)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -Phenyl- $\alpha$ -[3-Amidophenyl]methan. Sm. 183—184° (B. 35, 2354 C. 1902 [2] 518).
- $C_{17}H_{21}O_9NS$  1) 2-Naphtylsulfongalaheptosaminsäure. Sm. 201° u. Zers. (B. 35, 3785 C. 1902 [2] 1470).
- $C_{17}H_{22}O_4N_2S_2$  3) Di[Aethylphenylsulfonamido]methan (M. 23, 119 C. 1902 [1] 1088).
- $C_{17}H_{27}O_6NS_2$  2)  $\alpha\alpha$ -Di[Isoamylsulfon]- $\alpha$ -[3-Nitrophenyl]methan. Sm. 120—122° (B. 35, 2348 C. 1902 [2] 516).
- 3)  $\alpha\alpha$ -Di[Isoamylsulfon]- $\alpha$ -[4-Nitrophenyl]methan. Sm. 108—110° (B. 35, 2349 C. 1902 [2] 517).

## — 17 V —

- $C_{17}H_{11}O_1N_2ClS$  1) 3,12-Anhydro-10-Chlor-5-Oxy- $\alpha\beta$ -Naphtophenazin-3-Sulfonsäure-12-Methyloxydhydrat (B. 34, 1100).
- $C_{17}H_{15}ON_3Br_3S$  1) Tribrom-3,6-Di[Dimethylamido]thioxanthon. Sm. 235° (J. pr. [2] 65, 511 C. 1902 [2] 372).
- $C_{17}H_{17}ON_2ClS$  1) Propyläther d. Benzoylimido-3-Chlorphenylamidomerkapto-methan (Benzoyl-m-Chlorphenylthiolpropylpseudothioharnstoff). Sm. 59—59,5° (Am. 28, 415).
- $C_{17}H_{18}O_2N_2J_2S$  1) Diäthyläther d. s-Di[3-Jod-4-Oxyphenyl]thioharnstoff. Sm. 163° (B. 29, 2596). — \*II, 419.

 $C_{18}$ -Gruppe.

- $C_{18}H_{20}$  \*4) 1-Methyl-2,3-Diphenyl-R-Pentamethylen. Sm. 62—63° (Soc. 79, 1033).
- 10)  $\alpha\alpha$ -Diphenyl- $\alpha$ -Hexen. Sd. 314° (C. r. 135, 534 C. 1902 [2] 1209).
- 11) bim.  $\beta$ -Phenylpropen. Sm. 52—53°; Sd. 158—159°<sub>s</sub> (302—305°) (C. 1901 [2] 624; B. 35, 2639 C. 1902 [2] 585).
- 12) 1,2-Diphenylhexahydrobenzol. Sm. 171° (A. 318, 316).
- 13) Kohlenwasserstoff (aus Benzol, sec. Butylchlorid, Al u.  $HgCl_2$ ). Sm. 123 bis 124°; Sd. oberh. 250° (B. 33, 440). — \*II, 120.
- $C_{18}H_{22}$  9)  $\alpha\alpha$ -Diphenylhexan. Sd. 164°<sub>10</sub> (C. r. 135, 534 C. 1902 [2] 1209).
- 10) Kohlenwasserstoff (aus  $\alpha$ -Oxyisopropylbenzol). Sd. 119—120° (B. 35, 2638 C. 1902 [2] 585).
- $C_{18}H_{26}$  C 89,2 — H 10,8 — M. G. 242.
- 1) 1,3-Di[Hexahydrophenyl]benzol. Fl. (A. 318, 318).
- $C_{18}H_{34}$  3)  $\beta$ -Methyl- $\beta\gamma$ -Heptadekadien. Sd. 185—188° (C. 1901 [2] 1201).
- $C_{18}H_{38}$  \*1) Oktadekan. Sd. 300—301°<sub>760</sub> u. Zers. (Am. 28, 177 C. 1902 [2] 1081).

## — 18 II —

- $C_{18}H_{10}O_2$  \*1) Chrysochinon (B. 35, 344 C. 1902 [1] 590).
- $C_{18}H_{10}O_3$  5) 6-Oxy-5,12-Diketo-5,12-Dihydronaphtacen (D.R.P. 134985 C. 1902 [2] 1085).
- 6) Anhydrid d. 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure. Sm. 257 bis 259° (B. 32, 2480; B. 35, 1408 C. 1902 [1] 1156).
- $C_{18}H_{10}O_4$  \*3) Isoäthindiphtalid (B. 34, 2152).
- $C_{18}H_{10}N_4$  2) Chinoxalonaphtazin. Sm. 290° u. Zers. (A. 319, 272 C. 1902 [1] 359).
- $C_{18}H_{12}O_2$  6) 2-Methyl- $\gamma$ -Phenonaphtoxanthon. Sm. 158—159° (B. 34, 4146 C. 1902 [1] 315).
- $C_{18}H_{12}O_3$  11) 2,5-Dibenzoylfuran. Sm. 107° (Am. 25, 457).
- $C_{18}H_{12}O_4$  \*17) 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure (Triphenyltrimesinsäure; Phenyltribenzoösäure). Sm. 259—261° (257—259°).  $Na_3$ ,  $Ag_1$  (B. 11, 1008; 32, 2478; 33, 3083; B. 35, 1407 C. 1902 [1] 1155). — II, 2040.
- 18) 2-Phenylnaphtalin-1,2'-Dicarbonsäure (Chrysodiphenensäure). Sm. 199°  $Ag_2$  (B. 35, 2745 C. 1902 [2] 642).

- $C_{13}H_{12}O_5$  6) Verbindung (aus Formononetin  $C_{19}H_{14}O_5$ ). Sm. bei  $300^\circ$  (*M.* 23, 146 *C.* 1902 [1] 1104).
- $C_{18}H_{12}O_6$  \*5) Diacetat d. 1,4-Dioxy-9,10-Anthrachinon. Sm.  $200^\circ$  (*B.* 35, 2924 *C.* 1902 [2] 1049).
- \*6) Diacetat d. 1,5-Dioxy-9,10-Anthrachinon. Sm.  $244^\circ$  (*B.* 35, 2928 *C.* 1902 [2] 1050).
- \*7) Diacetat d. 1,6-Dioxy-9,10-Anthrachinon. Sm.  $227-232^\circ$  (*B.* 35, 2931 *C.* 1902 [2] 1051).
- $C_{13}H_{12}O_7$  3) Diacetat d. 1,2,7-Trioxo-9,10-Anthrachinon. Sm.  $175-178^\circ$  (*C.* 1901 [1] 548; 1901 [2] 250).
- $C_{13}H_{12}N_2$  15) Nitril d.  $\alpha$ -[1-Naphtyl]imido- $\alpha$ -Phenyllessigsäure. Sm.  $103^\circ$ ; Sd.  $345$  bis  $346^\circ$  (*B.* 35, 3333 *C.* 1902 [2] 1192).
- 16) Nitril d.  $\alpha$ -[2-Naphtyl]imido- $\alpha$ -Phenyllessigsäure. Sm.  $124^\circ$ ; Sd. oberh.  $360^\circ$  (*B.* 35, 3333 *C.* 1902 [2] 1192).
- $C_{13}H_{12}N_4$  \*1) Homofluorindin (Phenofluorindin).  $2HCl$  (*B.* 34, 3731 *C.* 1902 [1] 54).
- 5) Naphtofluoavin. Sm. oberh.  $300^\circ$  (*A.* 319, 271 *C.* 1902 [1] 359).
- 6) isom. Naphtofluoavin. Sm. oberh.  $300^\circ$  (*A.* 319, 274 *C.* 1902 [1] 360).
- $C_{13}H_{13}N$  \*7) 10-Methyl- $\alpha$ -Phenakridin. Sm.  $158^\circ$  (*C.* 1901 [1] 348, 978).
- $C_{13}H_{14}O_2$  7) Diphenyläther d. 1,4-Dioxybenzol. Sm.  $74-75^\circ$  (*B.* 34, 1071).
- 8) Acetat d. 2-[4-Oxyphenyl]naphtalin. Sm.  $128^\circ$  (*M.* 23, 827 *C.* 1902 [2] 1470).
- $C_{13}H_{14}O_3$  \*12) Anhydrid d.  $\beta$ -Phenylakrylsäure. Sm.  $136^\circ$  (*B.* 34, 186, 2075).
- 23) 4-Methylphenylester d. 3-Oxynaphtalin-2-Carbonsäure. Sm. 90 bis  $90,5^\circ$  (*B.* 34, 4145 *C.* 1902 [1] 315).
- 24) Acetat d. 7-Oxy-4-Methylen-2-Phenyl-1,4-Benzpyran.  $\alpha$ -Modif. Sm.  $155-160^\circ$ ;  $\beta$ -Modif. Sm. oberh.  $300^\circ$  (*B.* 34, 1790).
- 25) 3-Benzooat d. 2,3-Dioxynaphtalin-2-Methyläther. Sm.  $133^\circ$  (*J. pr.* [2] 65, 536 *C.* 1902 [2] 368).
- $C_{13}H_{14}O_4$  \*20) Diacetat d. 9,10-Dioxyphenanthren. Sm.  $202^\circ$  (*B.* 35, 2736 *C.* 1902 [2] 644; *B.* 35, 3125 *C.* 1902 [2] 1212).
- 30) Laktol d.  $\gamma$ -Oxy- $\gamma$ -Acetoxy- $\beta$ -Diphenylpropen- $\alpha$ -Carbonsäure. Sm.  $116^\circ$  (*A.* 319, 175 *C.* 1902 [1] 105).
- 31) Acetat d. 7-Oxy-2-Benzyl-1,4-Benzpyron. Sm.  $114^\circ$  (*B.* 35, 868 *C.* 1902 [1] 813).
- 32) 3-Salicylat d. 2,3-Dioxynaphtalin-2-Methyläther. Sm.  $138^\circ$  (*J. pr.* [2] 65, 536 *C.* 1902 [2] 368).
- $C_{13}H_{14}O_5$  14) 5-Acetat d. 1,5-Dioxy-9,10-Anthrachinon-1-Aethyläther. Sm. 172 bis  $173^\circ$  (*B.* 35, 2930 *C.* 1902 [2] 1050).
- $C_{13}H_{14}O_6$  \*1) Hydroäsculetin. Zers. bei  $300^\circ$  (*B.* 34, 2614; *B.* 35, 2920 *C.* 1902 [2] 1046).
- 6) Diäthylester d. 1,3,4,6-Tetraketo-2,3,4,5-Tetrahydroindacen-2,5-Dicarbonsäure.  $Na_2$  (*B.* 34, 2783).
- $C_{13}H_{14}O_{10}$  C 55,4 — H 3,6 — O 41,0 — M. G. 300.
- 1) Säure +  $3H_2O$  (aus Anhydrotetrone Säure u. Acetaldehyd). Sm.  $247^\circ$  u. Zers. (wasserfrei) (*A.* 315, 162).
- $C_{13}H_{14}N_2$  \*3) 4-Phenylazobenzol. Sm.  $149,5^\circ$  (*B.* 34, 3969 *C.* 1902 [1] 199).
- \*4) p-Diphenylazophenylen (*C.* 1902 [1] 526).
- \*7) Nitril d.  $\alpha$ -[1-Naphtyl]amido- $\alpha$ -Phenyllessigsäure. Sm.  $113^\circ$  (*B.* 35, 3333 *C.* 1902 [2] 1192).
- 8) 5-Phenyl-5,10-Dihydrophenazin. Sm.  $143^\circ$  (*A.* 322, 69 *C.* 1902 [2] 225).
- 9) Nitril d.  $\alpha$ -[2-Naphtyl]amido- $\alpha$ -Phenyllessigsäure. Sm.  $119-120^\circ$  (*B.* 35, 3333 *C.* 1902 [2] 1192).
- $C_{13}H_{15}N$  \*1) Triphenylamin. Sd.  $347-348^\circ$  (*B.* 34, 40 Ann.).
- \*4)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[2-Chinolyl]äthen.  $HCl$  (*B.* 35, 1958 *C.* 1902 [2] 130).
- $C_{13}H_{15}N_3$  9) 2-Amido-1,4-Di[Phenylimido]-1,4-Dihydrobenzol (*B.* 34, 1272).
- 10) 2-[ $\alpha$ -Phenylhydrazonbenzyl]pyridin. Sm.  $136-137^\circ$  (*C.* 1902 [1] 206).
- 11) 4-[ $\alpha$ -Phenylhydrazonbenzyl]pyridin. Sm.  $181-182^\circ$  (*C.* 1902 [1] 206).
- $C_{13}H_{15}N_5$  5) 2-Amido-3-[2-Amidophenyl]amido-5,10-Naphtdiazin.  $2HCl$  (*B.* 34, 3730 *C.* 1902 [1] 54).
- $C_{13}H_{15}P$  \*1) Triphenylphosphin. Sm.  $79^\circ$  (*B.* 34, 569).
- $C_{13}H_{15}As$  \*1) Triphenylarsin. Sm.  $60^\circ$ . ( $2HCl$ ,  $PtCl_4$ ) (*B.* 34, 569; *A.* 321, 160 *C.* 1902 [2] 43).

- $C_{18}H_{15}Sb$  \*1) Antimontriphenyl. Sm. 48° (B. 34, 569).  
 $C_{18}H_{16}O$  4) 2-Keto-1-Methyl-4, 5-Diphenyl-2, 3-Dihydro-R-Penten. Sm. 77 bis 78° (Soc. 79, 1032).  
 $C_{18}H_{16}O_2$  \*1) 1-Oxy-3-Keto-2-Methyl-1, 5-Diphenyl-2, 3-Dihydro-R-Penten (Soc. 79, 1030).  
 \*6) Styracin. Sm. 44° (C. 1901 [2] 857).  
 10) 1-Oxy-3-Keto-4-Methyl-1, 5-Diphenyl-2, 3-Dihydro-R-Penten. Sm. 118° (Soc. 79, 1028).  
 11) Methyläther d.  $\gamma$ -Keto- $\alpha$ -Phenyl- $\epsilon$ -[4-Oxyphenyl]- $\alpha\delta$ -Pentadien (Benzal-p-Anisalaceton). Sm. 96,5° (B. 35, 3022 C. 1902 [2] 1113).  
 12)  $\alpha\delta$ -Diketo- $\alpha\beta$ -Diphenyl- $\beta$ -Hexen (Desylenmethyläthylketon). Sm. 157° (Soc. 79, 1030).  
 $C_{18}H_{16}O_3$  13) Äthyläther d. 7-Oxy-2-Benzyl-1, 4-Benzpyron. Sm. 154° (B. 35, 867 C. 1902 [1] 813).  
 14) Acetat d. 7-Oxy-4-Methyl-2-Phenyl-1, 4-Benzpyran. Sm. 115 bis 120° (B. 34, 1794).  
 15) Äthylester d. 9-Methylfluoren-9-Ketocarbonsäure. Sd. 210—215°<sub>12</sub> (B. 35, 762 C. 1902 [1] 814).  
 $C_{18}H_{16}O_4$  \*20)  $\alpha$ -Truxillsäure. Sm. 274° Ag<sub>2</sub> (B. 35, 2413 C. 1902 [2] 444; Am. 28, 235 C. 1902 [2] 1047; B. 35, 2908 C. 1902 [2] 1045).  
 \*28) Äthylester d. Dibenzoylessigsäure. Sm. 112° (B. 35, 934 C. 1902 [1] 808).  
 45) Diäthyläther d. 1, 5-Dioxy-9, 10-Anthrachinon. Sm. 178° (B. 35, 2930 C. 1902 [2] 1050).  
 46) Diacetat d. 1, 9-Dioxy-9, 10-Dihydroanthracen. Sm. 84—85° (B. 35, 2925 C. 1902 [2] 1050).  
 $C_{18}H_{16}O_5$  19) Ononetin. Sm. 145—150° (M. 23, 142 C. 1902 [1] 1104).  
 20) Trimethyläther d. 7-Oxy-2-[3, 5-Dioxyphenyl]-1, 4-Benzpyron. Sm. 181—182° (B. 35, 2886 C. 1902 [2] 1054).  
 $C_{18}H_{16}O_6$  12) Verbindung (aus d. Verb.  $C_{20}H_{22}O_7$ ). Sm. 275° (Am. 25, 408).  
 $C_{18}H_{16}O_7$  \*2) d-Unninsäure. Ba, Sr + 2H<sub>2</sub>O (J. pr. [2] 63, 524; A. 319, 391 C. 1902 [1] 434; A. 324, 139 C. 1902 [2] 1511).  
 \*4) Unnolsäure. Sm. 240° u. Zers. (A. 324, 171 C. 1902 [2] 1512).  
 8) Diacetat d. Jacarandin. Sm. 192—194° (Soc. 81, 218 C. 1902 [1] 532).  
 $C_{18}H_{16}N_2$  17) 2, 5-Di[4-Methylphenyl]-1, 4-Diazin. Sm. 204° (B. 35, 2295 C. 1902 [2] 362).  
 $C_{18}H_{17}N_3$  16) 2-Amido-1, 4-Di[Phenylamido]benzol. Sm. 83° (B. 34, 1273).  
 $C_{18}H_{15}O_2$  \*14) Diäthylcarbobozenoesäure. Sm. 100° (B. 35, 1988 C. 1902 [2] 367).  
 21) Verbindung (aus  $\alpha$ -Benzaläthylmethylketon). Sm. 68,5° (B. 35, 968 C. 1902 [1] 871).  
 $C_{18}H_{15}O_3$  18) Naphtalidmethylnormalbutylketon. Sm. 75° (M. 23, 840 C. 1902 [2] 1471).  
 19) Verbindung (aus Phenol). Sm. 74—76° (C. 1901 [1] 23).  
 $C_{18}H_{15}O_4$  29) Dibenzylidenäther d. d-Erythrit. Sm. 231° (Bl. [3] 25, 741).  
 30) Dibenzylidenäther d. l-Erythrit. Sm. 231° (204—205°) (Bl. [3] 25, 741; B. 34, 1371).  
 31) Dibenzylidenäther d. r-Erythrit. Sm. 220° (Bl. [3] 25, 744).  
 32) 2-Methyläther-3'-Äthyläther d. 2, 3'-Dioxydibenzoylmethan. Sm. 63° (B. 34, 1692).  
 33) Diäthylester d. 3, 4-Dimethylindacen-2, 5-Dicarbonsäure. Sm. 165 bis 166°. Ag (B. 34, 2791).  
 34) Di[2, 4-Dimethylphenylester] d. Oxalsäure. Sm. 144° (B. 35, 3444 C. 1902 [2] 1303).  
 35) Di[2, 5-Dimethylphenylester] d. Oxalsäure. Sm. 111° (B. 35, 3444 C. 1902 [2] 1303).  
 36) Di[3, 4-Dimethylphenylester] d. Oxalsäure. Sm. 106° (B. 35, 3444 C. 1902 [2] 1303).  
 37) Diacetat d. 4, 4'-Dioxy-2, 2'-Dimethylbiphenyl. Sm. 75° (C. 1902 [2] 1448).  
 38) Verbindung (aus m-Nylylendiacetessigsäure). Sm. noch nicht bei 300° (B. 34, 2793).  
 $C_{18}H_{15}O_5$  9) Diacetat d. Isopropyl-1, 8-Dioxy-2-Naphtylketon. Sm. 105—106° (C. 1901 [2] 1287).

- $C_{18}H_{18}O_5$  10) Diäthylester d. 1-Naphtoxyfumarsäure. Sd. 246—248°<sub>18</sub> (Soc. 81, 426 C. 1902 [1] 758).  
 11) Diäthylester d. 2-Naphtoxyfumarsäure. Sd. 240—242°<sub>12</sub> (Soc. 81, 422 C. 1902 [1] 757).
- $C_{18}H_{18}O_7$  6) Trimethylkatechon. Sm. 210° u. Zers. (B. 35, 1869 C. 1902 [2] 51; B. 35, 2409 C. 1902 [2] 448).  
 C 54,8 — H 4,5 — O 40,6 — M. G. 394.
- $C_{18}H_{18}O_{10}$  1) Diäthylester d. Dipyromucylweinsäure. Sm. 76° (Soc. 79, 518).
- $C_{18}H_{18}N_4$  4) 2, 6-Di[Phenylamido]-4, 5-Dimethyl-1, 3-Diazin. Sm. 133—134° (B. 34, 2827).
- $C_{18}H_{20}O$  5) 3-Methyl-6-Isopropylphenyläther d.  $\alpha$ -Oxy- $\alpha$ -Phenyläthen. Sm. 26°; Sd. 177—178°<sub>10</sub> (Soc. 79, 919).
- $C_{18}H_{20}O_2$  15) Aethylester d.  $\beta\beta$ -Diphenylisobuttersäure. Sm. 88—89° (B. 34, 1998).  
 16) Verbindung (aus p-Oxypseudocumylalkohol) (A. 302, 110, 118). — \*II, 686.
- $C_{18}H_{20}O_3$  10) 4-tert. Amylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 76 bis 78° (D.R.P. 68111). — \*II, 888.
- $C_{18}H_{20}O_4$  9) Tetramethyläther d.  $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthen. Sm. 155 bis 156° (B. 34, 415). — \*II, 632.
- $C_{18}H_{20}N_2$  \*3) Di[2,5-Dimethylbenzyliden]hydrazin. Sm. 114—114,5° (C. 1901 [2] 772).  
 6)  $\gamma$ -Phenylhydrazon- $\alpha$ -Phenyl- $\alpha$ -Hexen. Sm. 99—100° (B. 35, 3080 C. 1902 [2] 1110).  
 7)  $\gamma$ -Phenylhydrazon- $\alpha$ -Phenyl- $\beta$ -Aethyl- $\alpha$ -Buten. Sm. 86° (B. 35, 3090 C. 1902 [2] 1111).
- $C_{18}H_{20}N_6$  3) 4,6-Diamido-1,3-Di[2-Amidophenylamido]benzol. 4HCl, (4HCl, SnCl<sub>2</sub>) (B. 34, 3729 C. 1902 [1] 54).
- $C_{18}H_{20}S_2$  \*2) Diäthyläther d.  $\alpha\beta$ -Dimerkapto- $\alpha\beta$ -Diphenyläthen. Sm. 104—105° (B. 35, 510 C. 1902 [1] 660).  
 C 86,0 — H 8,4 — N 5,6 — M. G. 251.
- $C_{18}H_{21}N$  1)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[1,2,3,4-Tetrahydro-2-Chinolyl]äthan. Sd. 249—250°<sub>25</sub> (B. 35, 1958 C. 1902 [2] 131).
- $C_{18}H_{22}O$  4)  $\alpha$ -Oxy- $\alpha$ -Diphenylhexan. Sm. 46—47° (C. r. 135, 534 C. 1902 [2] 1209).
- $C_{18}H_{22}O_6$  3) Diäthylester d. Oxyfumareugenoläthersäure. Sd. 231—232°<sub>14</sub> (Soc. 79, 1186).
- $C_{18}H_{22}N_2$  \*5) 2,4,5,2',4',5'-Hexamethylazobenzol. Sm. 172° (A. 320, 129).  
 \*6) 2,4,6,2',4',6'-Hexamethylazobenzol. Sm. 75° (A. 320, 129).  
 21)  $\alpha\gamma$ -Di[4-Methylphenylamido]- $\alpha$ -Buten. Sm. 116° (A. 318, 88).  
 22) 2-Methyl-1, 3-Di[3-Methylphenyl]tetrahydroimidazol. Sm. 83° (B. 34, 1510).
- $C_{18}H_{22}N_4$  23) Base (aus Anilin u. Propionaldehyd). Sm. 103° (A. 318, 88).  
 \*6)  $\beta\epsilon$ -Di[Phenylhydrazon]hexan. Sm. 120° (B. 35, 2169 C. 1902 [2] 261).
- $C_{18}H_{23}N_6$  3) Methylauramin. Sm. 133°. HCl, (2HCl, PtCl<sub>4</sub>), HBr, HJ, (HJ, J<sub>4</sub>), (HJ, J<sub>6</sub>), (HJ, BrJ<sub>3</sub>), Trichromat, Pikrat, Methylsulfat (J. pr. [2] 66, 388 C. 1902 [2] 1508; B. 35, 2619 C. 1902 [2] 593).  
 C 69,9 — H 7,4 — N 22,6 — M. G. 309.
- $^{18}H_{23}N_5$  1) Di[2,4-Dimethylphenyl]biguanid. HCl, HNO<sub>3</sub> (B. 34, 2601).
- $C_{18}H_{24}O_3$  6) Triäthylester d.  $\alpha$ -Phenylpropan- $\alpha\alpha\gamma$ -Tricarbonsäure. Sd. 219 bis 221°<sub>15</sub> (B. 34, 4175 C. 1902 [1] 254).
- $C_{18}H_{24}O_4$  7) Diacetat d. 3,4-Dioxy-1-Methyl-4-Benzylhexahydrodiazol. Sm. 69—70° (Bl. [3] 27, 303 C. 1902 [1] 1221).  
 C 67,5 — H 7,5 — O 25,0 — M. G. 320.
- $C_{18}H_{24}O_5$  1) Diäthylester d. Oxyfumar-2-Methyl-5-Isopropylphenyläthersäure. Sd. 206°<sub>14</sub> (Soc. 79, 920).  
 2) Diäthylester d. Oxyfumar-3-Methyl-6-Isopropylphenyläthersäure. Sd. 194°<sub>10</sub> (Soc. 79, 919).
- $C_{18}H_{24}O_6$  6) Glyoxylsäurederivat d. Dimethyldihydroresorcin. Sm. 210—212° u. Zers. (B. 34, 1651).
- $C_{18}H_{24}O_7$  \*2) Triäthylester d. 3-Oxy-1-Methylbenzoläthyläther-2,4,6-Tricarbonsäure. Sd. 365° u. Zers. (G. 31 [1] 155).
- $C_{18}H_{24}N_2$  15)  $\alpha\beta$ -Di[2,4-Dimethylphenylamido]äthan. Sm. 74—75° (71°). (2HCl, PtCl<sub>4</sub>), 2HNO<sub>3</sub>, + HgCl<sub>2</sub> (Soc. 79, 254; B. 34, 1510).



- $C_{15}H_{24}N_4$  7) 3,3'-Di-Dimethylamido-4,4'-Dimethylazobenzol. Sm. 99° (u. 119°) (C. 1901 [1] 105).
- $C_{18}H_{26}O$  \*2)  $\beta$ -Keto- $\alpha$ -Benzylidenundekan? Sm. 41—42°; Sd. 245°<sub>33</sub> (Bl. [3] 25, 269).
- 3)  $\gamma$ -Keto- $\alpha$ -Phenyl- $\alpha$ -Dodeken (Benzalmethylnonylketon). Sm. 44—45° (C. 1901 [1] 525).
- $C_{18}H_{26}O_2$  \*1) Mentylester d. Phenylessigsäure. Sd. 216°<sub>59</sub> (C. 1902 [2] 359).
- $C_{18}H_{26}O_4$  \*5) Diacetat d. 1,3-Dioxy- $\beta$ -Di[tert. Butyl]benzol. Sm. 137—138° (C. 1902 [2] 1199).
- 6) Diacetat d. isom. 1,3-Dioxy- $\beta$ -Di[tert. Butyl]benzol. Sm. 135° (C. 1902 [2] 1198).
- $C_{18}H_{26}O_{11}$  2)  $\beta$ -Phenolmaltosid. Sm. 96° (B. 35, 3154 C. 1902 [2] 1177).
- $C_{11}H_{26}N_4$  C 72,4 — H 8,7 — N 18,8 — M. G. 298.
- 1) 4'-Diäthylamido-4,6,2'-Triamido-3-Methyldiphenylmethan. Sm. 122° (D.R.P. 133709 C. 1902 [2] 615).
- 2) s-Di[3-Dimethylamido-4-Methylphenyl]hydrazin. Sm. 127° (C. 1901 [1] 105).
- $C_{18}H_{28}O$  4)  $\alpha$ -Isoamylenjonon. Sd. 165—175°<sub>15</sub> (D.R.P. 133758 C. 1902 [2] 614).
- 5)  $\beta$ -Isoamylenjonon. Sd. 170—180°<sub>15</sub> (D.R.P. 133758 C. 1902 [2] 614).
- $C_{18}H_{28}O_2$  5)  $\alpha$ -Picipimarolsäure. Sm. 95—96° (Ar. 240, 280 C. 1902 [2] 134).
- 6)  $\beta$ -Picipimarolsäure. Sm. 93—94° (Ar. 240, 280 C. 1902 [2] 134).
- 7) Benzoat d.  $\beta$ -Oxyundekan. Sd. 197,5—200°<sub>15</sub> (B. 35, 2144 C. 1902 [2] 260).
- $C_{18}H_{28}O_3$  C 74,0 — H 9,6 — O 16,4 — M. G. 292.
- 1) Homoparacopaivasäure. Sm. 111—112° (C. 1901 [2] 886).
- $C_{18}H_{28}O_6$  \*2) Tetraäthylester d. 1,1-Dimethyl-R-Trimethylen-2,3-Dicarbon-säure-2-Methyldicarbon-säure (Soc. 79, 763).
- 3) Säure (aus Digitogensäure) oder  $C_9H_{14}O_4$ . K + 7 H<sub>2</sub>O (B. 26 [2] 686; 34, 3576).
- $C_{18}H_{28}N_2$  2) 1,4-Di[1-Piperidylmethyl]benzol. Sm. 86°. (2HCl, PtCl<sub>4</sub>), (2HCl, 2AuCl<sub>3</sub>), 2 Pikrat (B. 34, 2086).
- $C_{18}H_{30}O_2$  7) Pinakon (aus D-d-Fenchocamphoron). Sm. 192—193° (A. 315, 289).
- 8)  $\alpha$ -Elaeostearinsäure. Sm. 48° (C. r. 135, 697 C. 1902 [2] 1364).
- 9)  $\beta$ -Elaeostearinsäure. Sm. 71° (C. r. 135, 697 C. 1902 [2] 1364).
- $C_{18}H_{30}O_8$  17) Äthyl-sec. Oktylester d. d-Diacetylweinsäure. Zers. oberh. 100° (Soc. 79, 1108).
- $C_{18}H_{32}O_2$  \*5) Taririnsäure ( $\epsilon$ -Heptadekin- $\alpha$ -Carbonsäure) (C. r. 134, 473 C. 1902 [1] 746; C. r. 134, 842 C. 1902 [1] 1155).
- $C_{18}H_{32}O_4$  3)  $\epsilon$ -Diketoheptadekan- $\alpha$ -Carbonsäure. Sm. 98°. Ba, Ag (C. r. 134, 547 C. 1902 [1] 858; Bl. [3] 27, 487 C. 1902 [2] 105).
- 4) Diamylester d. Homopilopinsäure. Sd. 192°<sub>25</sub> (B. 34, 732; 35, 200). C 65,8 — H 9,7 — O 24,4 — M. G. 328.
- $C_{18}H_{32}O_5$  1) Protolichestersäure. Sm. 103—104°. Ag (A. 324, 39 C. 1902 [2] 904).
- $C_{18}H_{32}O_6$  5) Acetylagaricinsäure. Sm. 81° (C. 1902 [1] 823).
- 6) Diäthylester d. l-Caprynläpfelsäure. Sd. 226,8°<sub>19</sub> (Ph. Ch. 36, 143).
- $C_{18}H_{32}O_{16}$  \*5) Stachyose (C. 1902 [1] 1399).
- 9) Gentianose (siehe auch  $C_{26}H_{46}O_{31}$ ) (C. 1901 [1] 823).
- 10) Manninotriose. Sm. 150°. BaO, Pb<sub>4</sub> (C. r. 134, 1588 C. 1902 [2] 348; Bl. [3] 27, 956 C. 1902 [2] 1178).
- $C_{18}H_{32}O_{17}$  C 41,5 — H 6,1 — O 52,3 — M. G. 520.
- 1) Manninotriionsäure (C. r. 134, 1589 C. 1902 [2] 348).
- $C_{18}H_{34}O$  2) Keton (aus  $\beta$ -Ketononan). Sd. 184—187°<sub>14</sub> (C. 1902 [2] 1407).
- $C_{18}H_{34}O_2$  \*2) Elaidinsäure. Heptylaminsalz (H. 35, 377 C. 1902 [2] 633).
- \*3) Oelsäure. Heptylaminsalz (H. 35, 377 C. 1902 [2] 633).
- $C_{18}H_{34}O_3$  \*10) Säure (aus Dioxystearinsäure). Na (Soc. 79, 1323 C. 1902 [1] 180).
- \*11) Anhydrid d. Pelargonsäure. Sm. 16°; Sd. 207°<sub>15</sub> (B. 33, 3576).
- 16)  $\zeta$ -Ketoheptadekan- $\alpha$ -Carbonsäure. Sm. 75°. NH<sub>4</sub>, Ba (C. r. 134, 548 C. 1902 [1] 858; Bl. [3] 27, 489 C. 1902 [2] 105).
- $C_{18}H_{34}O_5$  \*2) Säure (aus D. Dioxystearinsäure). Sm. 111—111,5°. Na, Ba (Soc. 79, 1318 C. 1902 [1] 179).
- 3) Dimethylester d. Agaricinsäure. Sm. 62—62,5° (C. 1902 [1] 823).
- $C_{18}H_{36}O_2$  \*6) Äthylester d. Palmitinsäure. Sm. 24° (J. pr. [2] 64, 422 C. 1902 [1] 23).

- $C_{18}H_{36}O_2$  9) Oxyd (aus  $\alpha\gamma$ -Dioxy- $\beta\beta\epsilon$ -Trimethylhexan). Sd. 140° (*M.* 11, 393; 19, 70; 22, 408). — **I**, 1003.
- $C_{18}H_{36}O_4$  \*3) *i*- $\theta$ -Dioxy- $\epsilon$ -stearinsäure. Sm. 130,5—131° (136—137°). Ca +  $H_2O$  (*Soc.* 79, 1315 *C.* 1902 [1] 179; *Ar.* 240, 54 *C.* 1902 [1] 482).
- $C_{18}H_{36}O_6$  \*1) Sativinsäure. Sm. 169—170° (*Ar.* 240, 54 *C.* 1902 [1] 482).
- $C_{18}H_{36}Br_2$  2)  $\beta\gamma$ -Dibrom- $\beta$ -Methylheptadekan. Fl. (*C.* 1901 [2] 1201).
- $C_{18}H_{37}N$  2) 1-Dibutylmethylamin (*C.* 1902 [2] 1238).
- $C_{18}H_{37}Cl$  1) Chloroktadekan. Sd. 185—190°<sub>15</sub> (*Am.* 28, 178 *C.* 1902 [2] 1081).
- $C_{18}H_{38}O$  3)  $\beta$ -Oxy- $\beta$ -Methylheptadekan. Sm. 34,5—35° (*C.* 1901 [2] 1201).

— 18 III —

- $C_{18}H_{16}O_2Br_2$  1)  $\beta$ -Dibrom- $\beta$ -Di[Tribromdioxyphenyl]-1,2-Benzochinon. (*Am.* 26, 42).
- $C_{18}H_{20}O_2Br_2$  \*1) Dibromanhydrobisdiketodihydroinden. Sm. 251° u. Zers. (*B.* 34, 3273).
- $C_{18}H_{16}O_4N_2$  \*4) Carbindigo (*B.* 35, 2427 *C.* 1902 [2] 456).
- 5) Nitrochinophthalon. Sm. 140° (*A.* 315, 342).
- 6) Diindoxylsäureanhydrid. Sm. noch nicht bei 290° (*B.* 35, 524 *C.* 1902 [1] 659).
- $C_{18}H_{16}O_4Cl_2$  1) Diacetat d.  $\alpha\beta$ -Dichlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthen. Sm. 180° (*J. pr.* [2] 59, 230). — \*II, 605.
- $C_{18}H_{16}O_4Cl_2$  1) Diacetat d.  $\alpha\alpha\beta\beta$ -Tetrachlor- $\alpha\beta$ -Di[3,5-Dichlor-4-Oxyphenyl]äthan. Sm. 176—177° (*J. pr.* [2] 59, 232). — \*II, 606.
- $C_{18}H_{10}O_6S$  1) 6-Oxy-5,12-Diketo-5,12-Dihydronaphacen-11-Sulfonsäure (D.R.P. 134985 *C.* 1902 [2] 1085).
- $C_{18}H_{16}N_2S_2$  3) Nitril d. 3,4-Dithiocarbonyl-1,2-Diphenyl-R-Tetramethylen-1,2-Dicarbonsäure. Sm. 174° (*B.* 34, 1050).
- $C_{18}H_{11}ON_3$  \*1) Triphenazinoxazin (*B.* 35, 2821 *C.* 1902 [2] 999).
- $C_{18}H_{11}O_2N$  \*3) Chinophthalon. Sm. 234° (*A.* 315, 336).
- 10) Isochinophthalon. Sm. 186° (*B.* 35, 2297 *C.* 1902 [2] 374).
- 11) Imid d. 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure. Sm. 246° (*B.* 35, 1410 *C.* 1902 [1] 1156).
- $C_{18}H_{11}O_6N_3$  2) Dinitrodihydrochinophthalon. Sm. 133° (*A.* 315, 342).
- $C_{18}H_{11}O_6Br$  2) Methylster d. 7-[4-Brombenzoxyl]-1,2-Benzpyron-4-Carbonsäure. Sm. 98° (*B.* 34, 384).
- $C_{18}H_{11}N_4Cl$  1) Chlornaphtofluoflavin. Sm. oberh. 300° (*A.* 319, 273 *C.* 1902 [1] 359).
- $C_{18}H_{12}ON_2$  12) 1-Benzoyl- $\beta$ -Naphthimidazol. Sm. 120° (*B.* 34, 934).
- 13)  $\alpha$ -Chinophthalin. Sm. 278° (2HCl, PtCl<sub>4</sub> (*A.* 315, 349).
- 14)  $\beta$ -Chinophthalin. Sm. 213°.  $H_2SO_4$ , Ag (*A.* 315, 351).
- 15) Anhydrid d. 3-Phenylamidophenoxazoniumhydroxyd. Sm. 196 bis 198° (*A.* 322, 13 *C.* 1902 [2] 221).
- $C_{18}H_{12}O_3N_2$  5) Verbindung (aus Carbindigo). Sm. 390—395° (*B.* 35, 2428 *C.* 1902 [2] 457).
- $C_{18}H_{12}O_4N_2$  \*10) Verbindung (aus Carbindigo) (*B.* 35, 2426 *C.* 1902 [2] 456).
- $C_{18}H_{12}O_6N_6$  2) 4,4'-Biphenylendi[Hydrazoncyanessigsäure].  $Na_4$ ,  $Ag_2$  (*J. pr.* [2] 63, 16).
- $C_{18}H_{12}O_6N_2$  C 61,4 — H 3,4 — O 27,3 — N 7,9 — M. G. 352.
- $C_{18}H_{12}O_6N_6$  1) Diphenyläther d. 4,6-Dinitro-1,3-Dioxybenzol. Sm. 129° (*Am.* 26, 7).
- 2) 4-Nitro- $\alpha$ -Imidobenzylamid d. 6-Oxy-2-[4-Nitrophenyl]-1,3-Diazin-4-Carbonsäure (*B.* 34, 1987).
- $C_{18}H_{12}O_5N_2$  2) Diacetat d. 2,7-Dinitro-9,10-Dioxyphenanthren. Sm. 285° u. Zers. (*B.* 35, 3127 *C.* 1902 [2] 1213).
- 3) Diacetat d.  $\beta$ -Dinitro-9,10-Dioxyphenanthren. Sm. 258° (*B.* 35, 3128 *C.* 1902 [2] 1213).
- $C_{18}H_{12}O_5N_4$  C 52,4 — H 2,9 — O 31,0 — N 13,6 — M. G. 412.
- 1) 4,8-Dinitro-1,5-Di[Acetylamido]-9,10-Anthrachinon (D.R.P. 127780 *C.* 1902 [1] 337).
- 2) 4,5-Dinitro-1,8-Di[Acetylamido]-9,10-Anthrachinon (D.R.P. 127780 *C.* 1902 [1] 338).
- 3) Phenylamid d. Oxyessig-1,??-Trinitro-2-Naphtyläthersäure. Sm. 232—233° u. Zers. (*B.* 34, 3199). — \*II, 524.
- $C_{18}H_{12}N_2Cl_2$  2) 2,3- oder 2,6-Dichlor-1,4-Di[Phenylimido]-1,4-Dihydrobenzol. Sm. bei 220° (*C.* 1902 [1] 527).

- $C_{18}H_{12}N_2Cl_2$  3) 2,5-Dichlor-1,4-Di[Phenylimido]-1,4-Dihydrobenzol. Sm. bei 220° (C. 1902 [1] 527).
- $C_{18}H_{12}N_2Cl_1$  1) 2,3,5,6-Tetrachlor-1,4-Di[Phenylamido]benzol (C. 1902 [1] 527).
- $C_{18}H_{12}N_2S$  1) Anhydrid d. 3-Phenylamidophenazthioniumhydroxyd. Sm. 150° (A. 322, 41 C. 1902 [2] 223).
- $C_{18}H_{12}N_2S_2$  4) Thiochinanthren. Sm. 306°; subl. bei 170°<sub>8</sub>. 2HCl, 2HBr, 4HNO<sub>3</sub> + 2H<sub>2</sub>O, H<sub>2</sub>SO<sub>4</sub> + 2H<sub>2</sub>O, 2H<sub>2</sub>SO<sub>4</sub>. Pikrat (J. pr. [2] 54, 342, 353; [2] 56, 273; B. 29, 2456; 30, 2418; 33, 3769; B. 35, 97 C. 1902 [1] 417; J. pr. [2] 66, 220 C. 1902 [2] 1131). — IV, 291.
- 5) isom. Thiochinanthren. Sm. oberh. 360°. 2HCl, 2HBr, 4HNO<sub>3</sub> + 2H<sub>2</sub>O, 2H<sub>2</sub>SO<sub>4</sub> (J. pr. [2] 56, 277; B. 35, 97; J. pr. [2] 66, 222 C. 1902 [2] 1131).
- $C_{18}H_{13}ON$  \*2) Acetylphenyl-β-Naphtylcarbazol. Sm. 149° (C. 1901 [2] 428).
- $C_{18}H_{13}ON_3$  12) Anhydrid d. 2-Hydroxylamido-5,10-Phenazin-10-Phenyl oxydhydrat (A. 322, 72 C. 1902 [2] 225).
- $C_{18}H_{13}O_2N$  \*10) Monophthalidylchinaldin. Sm. 104° (A. 315, 345).
- 12) 1-Naphtyläther d. 1-Oxymethylbenzoxazol. Sm. 220° (J. pr. [2] 64, 296).
- 13) 2-Naphtyläther d. 1-Oxymethylbenzoxazol. Sm. 204° (J. pr. [2] 64, 296).
- 14) α-[1-Naphtyl]imidophenylessigsäure. Sm. 145° u. Zers. (A. ch. [7] 9, 526). — \*II, 942.
- $C_{18}H_{13}O_3N$  8) Monamid d. 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure. NH<sub>4</sub>, Ag (B. 35, 1410 C. 1902 [1] 1156).
- 9) Verbindung (aus Phthalylehlorid u. Chinaldin). Sm. 124° (A. 315, 343).
- $C_{18}H_{13}O_3Br$  4) Acetat d. 2-Brom-1-Keto-3-[2-Oxybenzyliden]-2,3-Dihydroinden. Sm. 142° (Bl. [3] 27, 77 C. 1902 [1] 590).
- 5) Acetat d. 2-Brom-1-Keto-3-[3-Oxybenzyliden]-2,3-Dihydroinden. Sm. 173—174° (Bl. [3] 27, 78 C. 1902 [1] 590).
- 6) Acetat d. 2-Brom-1-Keto-3-[4-Oxybenzyliden]-2,3-Dihydroinden. Sm. 226—227° (Bl. [3] 27, 78 C. 1902 [1] 590).
- $C_{18}H_{13}O_4N$  8) Phenyläther-4-Nitrophenyläther d. 1,4-Dioxybenzol. Sm. 91 bis 92,5° (B. 34, 1070).
- $C_{18}H_{13}O_4Cl$  1) Benzoat d. 5- oder 7-Oxy-4,7- oder 4,5-Dimethyl-1,2-Benzpyron. Sm. 196° (B. 34, 339).
- $C_{18}H_{13}O_6N$  3) Diacetylderivat d. 4-Amido-1,2-Dioxy-9,10-Anthrachinon. Sm. 245° (B. 35, 906 C. 1902 [1] 815).
- 4) isom. Diacetylderivat d. 4-Amido-1,2-Dioxy-9,10-Anthrachinon. Sm. 205° (B. 35, 907 C. 1902 [1] 815).
- $C_{18}H_{13}O_6N_3$  2) Dehydroäscorbein (B. 34, 2616).
- $C_{18}H_{13}O_6N_5$  C 52,6 — H 3,2 — O 27,2 — N 17,0 — M. G. 411.
- 1) 2,4,6-Trinitro-3,5-Di[Phenylamido]-1-Oxybenzol. Sm. 200° u. Zers. (R. 21, 264 C. 1902 [2] 519).
- $C_{18}H_{13}O_6N_5$  C 50,6 — H 3,0 — O 30,0 — N 16,4 — M. G. 427.
- 1) 2,4,6-Trinitro-1,3-Di[4-Oxyphenylamido]benzol. Sm. 224—226° u. Zers. (D. R. P. 137108 C. 1902 [2] 1486).
- $C_{18}H_{13}NS$  1) 1-[α-Rhodanbenzyl]naphtalin. Sm. 76—77° (C. 1902 [2] 789).
- $C_{18}H_{13}N_2S_2$  2) 3-Merkapto-5-Thiocarbonyl-4-Phenyl-1-[1-Naphtyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 120° (B. 34, 319).
- $C_{18}H_{14}ON_2$  11) 2-Furalhydrazidofluoren. Sm. 190—191° (B. 34, 1763).
- 12) 2-Methyl-3-Benzylidenacetyl-1,4-Benzdiazin. Sm. 147° (B. 35, 3312 C. 1902 [2] 1109).
- $C_{18}H_{14}ON_4$  \*2) 4-Oxy-1,3-Di[Phenylazo]benzol. Sm. 131° (B. 35, 1611 C. 1902 [1] 1325).
- $C_{18}H_{14}O_2N_2$  \*23) 4,4'-Dimethylindigo (Am. 27, 12 C. 1902 [1] 477).
- 24) 5,5'-Dimethylindigo (B. 31, 1817; Am. 27, 11 C. 1902 [1] 477). — \*II, 961.
- 25) 6,6'-Dimethylindigo (Am. 27, 8 C. 1902 [1] 476).
- 26) Dimethylindigo (D. R. P. 128955 C. 1902 [1] 691).
- $C_{18}H_{14}O_2N_4$  17) 4-Phenylazo-2-Oxyazoxybenzol? Sm. 124—124,5° (B. 35, 1621 C. 1902 [1] 1326).
- 18) 5-Phenylazo-2-Oxyazoxybenzol. Sm. 145—145,5° (B. 35, 1619 C. 1902 [1] 1326).

- $C_{13}H_{14}O_3N_2$  14) 2,5-Di[ $\alpha$ -Oxidobenzyl]furan. Sm. 213—214° (*Am.* 25, 462).  
 15) isom. 2,5-Di[ $\alpha$ -Oxidobenzyl]furan. Sm. 243—245° u. Zers. (*Am.* 25, 273).  
 16) Di[Phenylamid] d. Furan-2,5-Dicarbonsäure. Sm. 227—228° (*Am.* 25, 453).
- $C_{13}H_{14}O_4N_2$  \*3) 1,5-Di[Acetylamido]-9,10-Anthrachinon. Sm. oberh. 300° (D.R.P. 127 780 *C.* 1902 [1] 337).  
 10) 1,3-Diketo-2-[3-Nitro-4-Dimethylamidobenzyliden]-2,3-Dihydroinden. Sm. 221° (*B.* 34, 2468).  
 11) Dianhydrodiacetylanthranilsäure. Sm. 249—250°. Cu, Ag<sub>2</sub> (*B.* 35, 3465 *C.* 1902 [2] 1315).  
 12) Dibenzoat d.  $\alpha,\delta$ -Dioximido- $\beta$ -Buten. Sm. 165° u. Zers. (*C. r.* 134, 907 *C.* 1902 [1] 1272).  
 13) Phenylamid d. Oxyessig-1-Nitro-2-Naphtyläthersäure. Sm. 139° (*B.* 34, 3196). — \*II, 524.
- $C_{13}H_{14}O_4Br_2$  2) 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (Dibrom- $\alpha$ -Truxillsäure). Sm. 260—264° (*B.* 35, 2932 *C.* 1902 [2] 1046).
- $C_{13}H_{14}O_6N_4$  \*2) 4,6-Dinitro-1,3-Di[4-Oxyphenylamido]benzol. Sm. 284—286° (*C.* 1901 [1] 1395).  
 C 54,3 — H 3,5 — O 28,1 — N 14,1 — M. G. 398.  
 1) Acetylderivat d. Verb.  $C_{16}H_{12}O_6N_4$  (aus 1-Amidonaphtalin u. 1,3,5-Trinitrobenzol). Sm. 140,5° (*Soc.* 79, 527).  
 2) Acetylderivat d. Verb.  $C_{16}H_{12}O_6N_4$  (aus 2-Amidonaphtalin u. 1,3,5-Trinitrobenzol). Sm. 142° (*Soc.* 79, 527).  
 C 52,2 — H 3,4 — O 30,9 — N 13,5 — M. G. 414.  
 1) Biphenylen-4,4-Di[Hydrazonmalonsäure]. Na<sub>2</sub> (*Bl.* [3] 27, 317 *C.* 1902 [1] 1205).
- $C_{13}H_{14}O_8N_4$  2) 2,3- oder 2,6-Dichlor-1,4-Di[Phenylamido]benzol. Sm. 106° (*C.* 1902 [1] 527).  
 3) 2,5-Dichlor-1,4-Di[Phenylamido]benzol. Sm. 157° (*C.* 1902 [1] 527).
- $C_{13}H_{15}ON$  15) 2-Oxy-1-[2-Methylphenylimido]methylnaphtalin. Sm. 124° (*Bl.* [3] 25, 375).  
 16) 2-Oxy-1-[4-Methylphenylimido]methylnaphtalin. Sm. 132° (*Bl.* [3] 25, 375).  
 17) 3-Benzoyl-2-Methyl-4-Phenylpyrazol. Sm. 231° (*B.* 35, 3005 *C.* 1902 [2] 1121).  
 18) Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[2-Chinoly]äthen. Sm. 126° HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (*B.* 35, 2786 *C.* 1902 [2] 994).
- $C_{13}H_{15}ON_3$  \*3) 4-Acetylamido-1-Phenylazonaphtalin. Sm. 233° (*B.* 34, 885).  
 8) 3-[ $\beta$ -Benzoylamido-4-Methylphenyl]-1,2-Diazin. Sm. 178—179° (*B.* 34, 3836 *C.* 1902 [1] 52).
- $C_{13}H_{15}OAs$  1) Phenyläther d. Diphenyloxyarsin. Sd. 230—231°<sub>15</sub> (*A.* 321, 143 *C.* 1902 [2] 42).
- $C_{13}H_{15}O_2N$  30) Phenyläther-4-Amidophenyläther d. 1,4-Dioxybenzol. Sm. 84 bis 84,5°. HCl (*B.* 34, 1070).  
 31) 1,3-Diketo-2-[4-Dimethylamidobenzyliden]-2,3-Dihydroinden. Sm. 99° (*B.* 34, 2467).
- $C_{13}H_{15}O_2N_3$  9) Acetat d. 6-Oxy-5-Methyl-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 104° (*B.* 34, 4247 *C.* 1902 [1] 209).  
 10) 2,6-Di[Phenylamido]pyridin-4-Carbonsäure. Sm. noch nicht bei 300° (*B.* 35, 2934 *C.* 1902 [2] 1055).
- $C_{13}H_{15}O_2As$  1) Diphenylester d. Phenylarsinogensäure. Sd. 245°<sub>15</sub> (*A.* 320, 287 *C.* 1902 [1] 919).
- $C_{13}H_{15}O_3N$  14) Acetat d. 9-Acetylamido-10-Oxyphenanthren. Sm. 242° (*B.* 35, 2737 *C.* 1902 [2] 645).  
 15) Diphenylamidoformiat d. 2-Oxymethylfuran. Sm. 97,5° (*B.* 35, 1851 *C.* 1902 [2] 64; *B.* 35, 1859 *C.* 1902 [2] 66).
- $C_{13}H_{15}O_3N_3$  4) 6-Oxy-4-Methyl-5-Benzyl-2-[4-Nitrophenyl]1,3-Diazin. Sm. 264° (*B.* 34, 1986).  
 5) 1-Semicarbazol-3-Phenylinden-2-Methylcarbonsäure. Sm. 218 bis 220° u. Zers. (*B.* 35, 1730 *C.* 1902 [2] 54).  
 6) Lakton d. 3-Semicarbazol-1-Oxy-1-Phenyl-2,3-Dihydroinden-2-Methylcarbonsäure. Zers. bei 256—261° (*B.* 35, 1736 *C.* 1902 [2] 55).
- $C_{13}H_{15}O_3B$  \*1) Triphenylester d. Borsäure. Sd. oberh. 360° (*A.* 315, 41).

- $C_{18}H_{15}O_4N$  8) Aethylester d. 3-Oxy-1-Benzoylindol-2-Carbonsäure. Sm. 87—88° (84—86°). Na (D.R.P. 126962 C. 1902 [1] 82; B. 35, 1692 C. 1902 [1] 1363).
- $C_{18}H_{15}O_5N$  9) Aethylester d. 3-Benzoxylindol-2-Carbonsäure. Sm. 163° (B. 34, 1854; D.R.P. 131400 C. 1902 [1] 1343).  
C 66,5 — H 4,6 — O 24,6 — N 4,3 — M. G. 325.
- $C_{18}H_{15}O_5Br$  1) 5-Keto-1,3-Diphenyltetrahydropyrrol-2,2-Dicarbonsäure. Sm. 178° (B. 35, 520 C. 1902 [1] 658).
- $C_{18}H_{15}O_6N$  1) 3,6-Diacetat d. 5-Brom-1,3,6-Trioxypentanthren-1-Methyläther. Sm. 189—191° (B. 34, 1545).
- $C_{18}H_{15}O_6N$  8) i-Urninoximsäureanhydrid. Sm. 235° u. Zers. (A. 324, 162 C. 1902 [2] 1511).
- 9) d-iso-Urninsäureoximanhydrid. Sm. 255° u. Zers. (A. 324, 164 C. 1902 [2] 1511).
- 10) Aethylester d. 4-Nitrodibenzoylessigsäure. Sm. 86—87° (B. 35, 937 C. 1902 [1] 808).
- $C_{18}H_{15}ClSi$  \*1) Siliciumtriphenylchlorid (Soc. 79, 454).
- $C_{18}H_{15}Cl_2As$  \*1) Triphenylarsendichlorid. Sm. 204—205° (A. 321, 162 C. 1902 [2] 44).
- $C_{18}H_{15}Br_2As$  1) Triphenylarsendibromid. Sm. 215° (A. 321, 163 C. 1902 [2] 44).
- $C_{18}H_{15}J_2As$  1) Triphenylarsentetrajodid. Sm. 142—144° (A. 321, 164 C. 1902 [2] 44).
- $C_{18}H_{16}ON_2$  22) 2-Oxy-1-[2,4-Dimethylphenylazo]naphtalin. Sm. 166° (C. 1902 [2] 938).
- $C_{18}H_{16}ON_4$  4) 4-Oxy-2-Phenylhydrazon-1-Acetylphenylhydrazon-1,2-Dihydrobenzol. Sm. 160° (Am. 26, 163).
- $C_{18}H_{16}OSi$  \*1) Siliciumtriphenyloxydhydrat (Soc. 79, 452).
- $C_{18}H_{16}O_2N_2$  \*9) Acetat d.  $\alpha$ -Phenyl- $\beta$ -[4-Oxynaphtyl]hydrazin. Sm. 160—165° (Soc. 81, 173 C. 1902 [1] 354).
- 27) 9,10-Di[Acetylamido]phenanthren. Sm. 330° u. Zers. (B. 35, 2739 C. 1902 [2] 645).
- $C_{18}H_{16}O_2N_4$  7) 3,6-Diketo-1,2-4,5-Di[ $\alpha$ -Phenyläthyliden]hexahydro-1,2,4,5-Tetrazin (Diacetophenon-p-Urazin). Sm. 124° (G. 31 [2] 560 C. 1902 [1] 481).
- $C_{18}H_{16}O_2Br_4$  \*1)  $\alpha,\beta$ -Di[3,6-Dibrom-4-Oxy-2,5-Dimethylphenyl]äthen. Sm. 233 bis 234° (B. 34, 4270 C. 1902 [1] 308).
- $C_{18}H_{16}O_3N_2$  13) 9-Acetyl-3-Diacetylamidocarbazol. Sm. 174,5° (B. 34, 1684).
- $C_{18}H_{16}O_4N_2$  11) 8-Nitro-1-Diäthylamido-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1373).
- 12) Dibenzot d.  $\alpha,\delta$ -Dioximidobutan. Sm. 152° (B. 34, 1493).
- 13) Aethylester d. 3-Phenylamidiformoxylindol-2-Carbonsäure. Sm. 187—189° (B. 34, 1855).
- $C_{18}H_{16}O_4N_4$  6) Di[Benzylamid]d. Bisanhydronitroessigsäure. Sm. 174—175° (B. 34, 879).
- $C_{18}H_{16}O_4N_6$  2) 4,6-Dinitro-1,3-Di[2-Amidophenylamido]benzol. Sm. 253° (B. 34, 3729 C. 1902 [1] 54).
- $C_{18}H_{16}O_5N_2$  6)  $\alpha$ -Aethylester d.  $\alpha$ -Phenylazobenzoylessigsäure-2-Carbonsäure +  $H_2O$ . Sm. 145—147° (B. 35, 927 C. 1902 [1] 807).
- $C_{18}H_{16}O_6N_2$  15)  $\alpha,\beta$ -Aethylendi[Amidophenyl-4-Ketocarbonsäure]. Sm. 205—208° u. Zers. (C. 1901 [1] 238). — \*II, 948.
- 16) Dimethylester d. s-Diphenyloxamid-3,3'-Dicarbonsäure. Sm. 236° (B. 33, 617). — \*II, 789.
- $C_{18}H_{16}O_6N_4$  2) 4,8-Dinitro-1,5-Di[Dimethylamido]-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1374).
- $C_{18}H_{16}O_7N_4$  C 54,0 — H 4,0 — O 28,0 — N 14,0 — M. G. 400.
- 1) 1-Amidonaphtalin + 2,4,6-Trinitro-1-Oxybenzoläthyläther. Sm. 79,5° (Soc. 79, 532).
- $C_{18}H_{16}ONCl$  2) Chlordiphenylmethylat d. Pyridin. 2 +  $PtCl_4$  (C. 1902 [1] 1301).
- $C_{18}H_{16}ONBr$  2) Bromdiphenylmethylat d. Pyridin +  $H_2O$ . Sm. 129—130° (C. 1902 [1] 1301).
- $C_{18}H_{16}NP$  1) Verbindung (aus Anilin u. Phosphorpentachlorid). Sm. 208—210° (Am. 27, 446 C. 1902 [2] 355).
- $C_{18}H_{16}N_2S$  10) Phenyl-1-Naphtylmethylthioharnstoff. Sm. 197—198° (C. 1902 [2] 789).
- $C_{18}H_{17}ON$  13) Aethyläther d. 4-Oxyphenyl-1-Naphtylamin. Sm. 89° (D.R.P. 80669). — \*II, 400.



- $C_{15}H_{17}ON$  14) 1-Keto-2-[4-Dimethylamidobenzyliden]-2,3-Dihydroinden. Sm. 165—166° (*B.* 34, 415).
- 15) 2- oder 3-Benzoylphenylamido-2,3-Dihydro-R-Penten. Sm. 76 bis 77° (*B.* 33, 3350). — \*II, 730.
- 16) Diphenylmethylhydroxyd d. Pyridin. (2 Chlorid +  $PtCl_4$ ), Bromid, Pikrat (*C.* 1902 [1] 1301).
- $C_{15}H_{17}ON_3$  10)  $\epsilon$ -Semicarbazon- $\alpha\epsilon$ -Diphenyl- $\alpha\gamma$ -Pentadien (*B.* 35, 1065 *C.* 1902 [1] 929).
- 11) Verbindung (aus 5-Nitrofur-2-Carbonsäure). Sm. 250° (*Am.* 27, 204 *C.* 1902 [1] 909).
- $C_{15}H_{17}ON_5$  2) Acetyldiphenylacetoguanamin. Sm. 217° (*B.* 34, 2599).
- $C_{15}H_{17}O_2N$  \*3) 2-Diäthylamido-9,10-Anthrachinon. Sm. 156° (*Bl.* [3] 25, 208).
- 10) Phenylimid d.  $\beta$ -[4-Methylphenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 174,5° (*Am.* 28, 51 *C.* 1902 [2] 702).
- $C_{15}H_{17}O_2As$  \*1) Triphenyloxyarsoniumhydroxyd. Sm. 115—116°. Nitrat, Dinitrat, Chromat (*A.* 321, 164 *C.* 1902 [2] 44).
- $C_{15}H_{17}O_3N$  5) 2-Methoxyl-4-Allylphenyläther d. 1-Oxymethylbenzoxazol. Sm. 111—113° (*J. pr.* [2] 64, 296).
- $C_{15}H_{17}O_3Br$  1) Bromderivat d. Verb.  $C_{15}H_{15}O_3$ . Sm. 86—88° (*C.* 1901 [1] 23).
- $C_{15}H_{17}O_4N$  6) 2-Diäthylamido-1,4-Dioxy-9,10-Anthrachinon +  $H_2O$ ? (*Bl.* [3] 25, 211).
- 7) 10-Acetat d. 10-Oximido-9,9-Dioxy-9,10-Dihydroanthracen-9,9-Dimethyläther. Sm. 114° u. Zers. (*A.* 323, 228 *C.* 1902 [2] 802).
- $C_{15}H_{17}O_5N$  7) Dimethylester d. Benzoylphenylamidoessigsäure-2-Carbonsäure. Fl. (D.R.P. 127648 *C.* 1902 [1] 337).
- 8)  $\gamma$ -Phenylmonamid d.  $\beta$ -Phenylpropan- $\alpha\gamma$ -Tricarbonsäure. Sm. 153° u. Zers. (*A.* 320, 97).
- $C_{15}H_{17}O_6N$  \*1) Corydinsäure (*Soc.* 81, 147 *C.* 1902 [1] 356).
- $C_{15}H_{17}O_7N$  8) d-syn-Usninsäureoxim. Sm. 243° (*A.* 324, 160 *C.* 1902 [2] 1511).
- 9) l-syn-Usninsäureoxim. Sm. 243° (*A.* 324, 160 *C.* 1902 [2] 1511).
- 10) d-anti-Usninsäureoxim. Sm. 217—220° (*A.* 324, 164 *C.* 1902 [2] 1511).
- 11) i-anti-Usninsäureoxim. Sm. 208° u. Zers. (*A.* 224, 163 *C.* 1902 [2] 1511).
- 12) Verbindung (aus d-Usninoximsäureoximanhydrid). Sm. 255° u. Zers. (*A.* 324, 167 *C.* 1902 [2] 1511).
- $C_{15}H_{17}O_9N$  C 55,2 — H 4,3 — O 36,8 — N 3,6 — M. G. 391.
- 1) Nitrotrimethylkatechon. Sm. 141° u. Zers. (*B.* 35, 2409 *C.* 1902 [2] 448).
- $C_{15}H_{18}ON_2$  12)  $\alpha$ -Aethylimido- $\alpha$ -[4-Methylbenzoyl]methylenamido- $\alpha$ -Phenylmethan. Sm. 257° (*B.* 34, 3027).
- 13) 4-[4-Oxyphenyl]amido-1-Aethylamidonaphtalin. Sm. 170° (D.R.P. 133481 *C.* 1902 [2] 555).
- 14) 7-[4-Dimethylamidophenyl]amido-2-Oxynaphtalin. Sm. 126—127° (*B.* 35, 3088 *C.* 1902 [2] 1116).
- 15) 3-Keto-1,5-Dimethyl-2-Phenyl-4-Benzyl-2,3-Dihydropyrazol (4-Benzylantipyrin). Sm. 70°. HCl (*B.* 34, 1308).
- $C_{15}H_{18}ON_4$  5) 4-[4-Dimethylamidophenyl]imido-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 187° (*B.* 35, 1438 *C.* 1902 [1] 1230).
- $C_{15}H_{18}O_2N_2$  \*5) 2,3-Diketo-1,4-Di[2-Methylphenyl]hexahydro-1,4-Diazin. Sm. 184° (*B.* 35, 3439 *C.* 1902 [2] 1303).
- \*7) 2,3-Diketo-1,4-Di[4-Methylphenyl]hexahydro-1,4-Diazin. Sm. 263° (*B.* 35, 3439 *C.* 1902 [2] 1303).
- 25)  $\beta$ -[4-Dimethylamidophenyl]imido- $\alpha\gamma$ -Diketo- $\alpha$ -Phenylbutan. Sm. 99° (*B.* 35, 3314 *C.* 1902 [2] 1109).
- 26)  $\delta$ -Phenylimido- $\delta$ -Phenylamido- $\gamma$ -Acetyl- $\beta$ -Ketobutan. Sm. 150° (*B.* 32, 3178). — \*II, 160.
- 27) 1,5-Di[Dimethylamido]-9,10-Anthrachinon (D.R.P. 136777 *C.* 1902 [2] 1373).
- 28) 1,7-Di[Dimethylamido]-9,10-Anthrachinon (D.R.P. 136777 *C.* 1902 [2] 1373).
- 29) 1,8-Di[Dimethylamido]-9,10-Anthrachinon (D.R.P. 136777 *C.* 1902 [2] 1373).
- 30) 4,5-Diketo-2-Methyl-1,3-Di[4-Methylphenyl]tetrahydroimidazol. Sm. 223° (*B.* 33, 618). — \*II, 284.

- $C_{15}H_{15}O_2N_2$  31) 3,6-Diketo-2,5-Dibenzylhexahydro-1,4-Diazin (Phenylaktimid). Sm. 290—291° (A. 219, 206; B. 34, 451). — II, 1365.
- $C_{15}H_{15}O_2N_4$  \*6) Nitril d.  $\alpha$ -[4-Diäthylamidophenyl]imido- $\alpha$ -[4-Nitrophenyl]essigsäure. HCl (B. 34, 121).
- $C_{15}H_{15}O_2Se$  1) Di[4-Methylbenzoylmethyl]selenid (Selenomethyl-p-Tolyketon). Sm. 103° (A. 314, 291).
- $C_{15}H_{15}O_3N_2$  \*12) Phenylmonamid d.  $\beta$ -Phenylamidoäthen- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 118° (B. 35, 2507 C. 1902 [2] 439).
- 14) Aethylester d.  $\alpha$ -[2-Methylphenylazo]benzoylessigsäure. Sm. 86° (B. 35, 926 C. 1902 [1] 807).
- 15) 2-Methylphenylmonamid d.  $\beta$ -[2-Methylphenyl]amidoäthen- $\alpha\alpha$ -Dicarbonsäure. Sm. 161° (B. 35, 2507 C. 1902 [2] 438).
- $C_{15}H_{15}O_3Br_4$  \*1) Di[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]äther. Sm. 255° (B. 34, 4289).
- $C_{15}H_{15}O_4N_2$  \*9) Diäthylester d. Azobenzol-3,3'-Dicarbonsäure. Sm. 108—109° (A. 320, 138).
- \*10) Diäthylester d. Azobenzol-4,4'-Dicarbonsäure. Sm. 144° (A. 320, 136).
- 15) 4,8-Di[Dimethylamido]-1,5-Dioxy-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1374).
- 16)  $\alpha\gamma$ -Di[Benzoylamido]buttersäure. Sm. 200—201° (B. 34, 2905).
- $C_{15}H_{15}O_4N_4$  10) Di[ $\alpha$ -Acetyl- $\beta$ -Phenylhydrazid] d. Oxalsäure (B. 35, 3689 C. 1902 [2] 1451).
- $C_{15}H_{15}O_5N_2$  7) Diäthylester d. Azoxybenzol-2,2'-Dicarbonsäure. Sm. 81—82° (C. 1902 [1] 1190; B. 35, 1999).
- $C_{15}H_{15}O_6N_2$  6) Dimethylester d.  $\beta$ -Phenylamido- $\alpha$ -[2-Nitrophenyl]äthan- $\beta\beta$ -Dicarbonsäure. Sm. 157° (B. 35, 516 C. 1902 [1] 658).
- $C_{15}H_{15}O_6N_4$  7)  $\alpha$ -Acetyl[4-Nitrophenyl]amido- $\alpha$ -[5-Nitro-2-Acetylmethylamidophenyl]methan. Sm. 216—218° (B. 35, 743 C. 1902 [1] 754).
- $C_{15}H_{15}O_8N_4$  5) Di[2-Nitro-4-Methoxyphenylamid] d. Bernsteinsäure. Sm. 215° (C. 1902 [2] 1449).
- $C_{15}H_{15}N_2Cl_2$  2) 1,4-Xylylendipyridoniumchlorid. 2 + PtCl<sub>4</sub>, 2 + 2 AuCl<sub>3</sub> (B. 34, 2089).
- $C_{15}H_{15}N_3Br_2$  2) 1,4-Xylylendipyridoniumbromid. Sm. 260°. + Br<sub>2</sub> (B. 34, 2089).
- $C_{15}H_{15}N_3As$  \*1) Tri[ $\beta$ -Amidophenyl]arsin. 2 + 3H<sub>2</sub>O (A. 321, 185 C. 1902 [2] 45).
- $C_{15}H_{15}ON$  5)  $\alpha$ -Benzoylamidophenoheptamethylen. Sm. 171—172° (Soc. 79, 610).
- 6) 1- $\alpha$ -Benzoylamidophenoheptamethylen. Sm. 175—176° (Soc. 81, 581 C. 1902 [1] 862).
- 7) Phenylbenzylamid d.  $\beta$ -Methylpropen- $\alpha$ -Carbonsäure. Sd. 226°<sub>20</sub> (B. 34, 2138).
- 8) 1-Naphtylamid d.  $\alpha$ -Heptin- $\alpha$ -Carbonsäure. Sm. 113—114° (C. 1901 [1] 1149).
- $C_{15}H_{15}ON_5$  4) Nitril d.  $\alpha$ -[4-Aethoxyphenyl]imido- $\alpha$ -[4-Dimethylamidophenyl]essigsäure. Sm. 133—134° (B. 35, 3574 C. 1902 [2] 1384).
- $C_{15}H_{15}O_2N$  20) 2-Methyl-5-Isopropylphenyläther d. 1-Oxymethylbenzoxazol. Sm. 195—197° (J. pr. [2] 64, 295).
- 21) 3-Methyl-6-Isopropylphenyläther d. 1-Oxymethylbenzoxazol. Sm. 191—192° (J. pr. [2] 64, 295).
- 22) Oxim d. Verb.  $C_{15}H_{15}O_2$ . Sm. 195—196° (B. 35, 969 C. 1902 [1] 871).
- $C_{15}H_{15}O_3N$  \*14) 4-Diäthylamidobenzoyl]benzol-1-Carbonsäure. Sm. 180°. + CH<sub>3</sub>O, + C<sub>2</sub>H<sub>5</sub>O (Bl. [3] 25, 172).
- \*19) Phenylamid d. Oxyessig-2-Methoxy-4-Allylphenyläthersäure. Sm. 58° (M. 22, 131).
- 22) Aethyläther d. Acetylphenacyl-4-Oxyphenylamin. Sm. 87° (C. 1901 [2] 472).
- 23) 9,9-Diäthyläther d. 10-Oximido-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 172—173° u. Zers. (A. 323, 229 C. 1902 [2] 802).
- 24) Benzoat d.  $\alpha$ -Benzoylamido- $\beta$ -Oxybutan. Sm. 107° (C. 1902 [1] 716).
- 25) Phenylmonamid d.  $\beta$ -[4-Methylphenyl]propan- $\alpha\gamma$ -Dicarbonsäure. Sm. 194—196°. Ag (Am. 28, 51 C. 1902 [2] 702).
- C 66,5 — H 5,8 — O 14,8 — N 12,9 — M. G. 325.
- 1) 4-Methyläther- $\beta$ -Phenyläther d.  $\gamma$ -Semicarbazon- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 193° (B. 35, 3556 C. 1902 [2] 1311).

- $C_{15}H_{19}O_3N_3$  2)  $\alpha$ -Semicarbazon- $\alpha\gamma$ -Diphenylbutan- $\delta$ -Carbonsäure. Sm. 212,5 bis 213° (B. 34, 655).
- $C_{15}H_{19}O_4N$  1) Benzoylanhalamin. Sm. 167,5° (B. 34, 3007).  
 12) Dimethylester d.  $\beta$ -Phenylamido- $\alpha$ -Phenyläthan- $\beta\beta$ -Dicarbonsäure. Sm. 94° (B. 35, 516 C. 1902 [1] 658).
- 13) Dimethylester d. Benzol-1-Carbonsäure-2-Benzylamidoessigsäure. Sm. 82—83° (B. 35, 1700 C. 1902 [1] 1364).
- 14) Propylester d. Benzoyl-4-Methoxyphenylamidoameisensäure. Sm. 78—80° (D.R.P. 73285). — \*II, 740.
- 15) Verbindung (aus Corydalin oder Corybulbin). HJ (Soc. 79, 89).
- $C_{15}H_{19}O_4N_3$  \*2) Diäthylester d. Diazoamidobenzol-3,3'-Dicarbonsäure. Sm. 146° (A. 319, 339 C. 1902 [1] 351).
- $C_{15}H_{19}O_4Cl_3$  1) Tetramethyläther d.  $\beta\beta\beta$ -Trichlor- $\alpha$ -Di[3,4-Dioxyphenyl]äthan. (B. 34, 415). — \*II, 632.
- $C_{15}H_{19}O_4Br$  1) 4-Benzooat d. 3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol- $\alpha$ ,3-Dimethyläther. Sm. 66—68° (B. 35, 122 C. 1902 [1] 474).
- $C_{15}H_{20}ON_2$  16) Verbindung (aus Benzylamin u. Acetessigsäureäthylester) (B. 27, 3380). — \*II, 299.
- $C_{15}H_{20}OS_2$  2) Diphenyläther d.  $\delta\delta$ -Dimerkapto- $\beta$ -Keto- $\gamma$ -Methylpentan. Fl. (B. 35, 502 C. 1902 [1] 637).
- $C_{15}H_{20}O_2N_2$  47) Diäthyläther d.  $\alpha\beta$ -Di[Phenylimido]- $\alpha\beta$ -Dioxyäthan. Sd. 205°<sub>12</sub> (Soc. 79, 700).  
 48) 2,2'-Di[Acetylamido]-4,4'-Dimethylbiphenyl. Sm. 189° (B. 34, 3333).  
 49) Glyoxim-N-2,5-Dimethylphenyläther. Sm. 204—205° (B. 35, 1881 C. 1902 [2] 33).  
 50) Dibenzoylisobutylhydrazin. Sm. 167° (B. 34, 3268).  
 51) s-Di[ $\beta$ -Phenylpropionyl]hydrazin. Sm. 208° (J. pr. [2] 64, 304).  
 52) Di[Phenylamid] d. Butan- $\alpha\delta$ -Dicarbonsäure. Sm. 235° (233°) (B. [3] 25, 444; G. 32 [1] 446 C. 1902 [2] 402).
- $C_{15}H_{20}O_2N_4$  11)  $\alpha\gamma$ -Di[4-Methylphenylnitrosamido]- $\alpha$ -Buten. Sm. 156° (A. 318, 88).  
 12) Dinitrosoderivat d. Base  $C_{15}H_{22}N_2$  (aus Anilin u. Propionaldehyd). Sm. 135° (A. 318, 88).  
 13) 2,4-Di[Acetylamido]-3,5-Dimethylazobenzol. Sm. oberh. 260° (Soc. 81, 94 C. 1902 [1] 186).  
 14) 2,6-Di[Acetylamido]-3,5-Dimethylazobenzol. Sm. oberh. 260° (Soc. 81, 95 C. 1902 [1] 186).  
 15) Isobutenyldiphenyliureid. Sm. 161° (PINNER, Imidoäther 127). — \*II, 186.  
 16) Di[Phenylamid] d. Hexahydro-1,4-Diazin-1,4-Dicarbonsäure (Diäthylenbisphenylharnstoff) (J. pr. [2] 53, 21). — \*II, 185.
- $C_{15}H_{20}O_3N_2$  23) Diacetylderivat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 101° (B. 35, 3087 C. 1902 [2] 1116).  
 24) Diacetylderivat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 131° (B. 35, 3086 C. 1902 [2] 1116).
- $C_{15}H_{20}O_3N_4$  7) 5,5'-Di[Acetylamido]-2,2'-Dimethylazoxybenzol. Sm. 280—281° u. Zers. (J. pr. [2] 63, 564).
- $C_{15}H_{20}O_4N_2$  \*2) Dimethyläther d. 4,4'-Di[Acetylamido]-3,3'-Dioxybiphenyl. Sm. 242—243° (B. 35, 112 C. 1902 [1] 414).  
 18) Phenylazoaspidinol. Sm. 132° (A. 318, 250).  
 19) Phenylazoflicinsäurebutanon. Sm. 137° (A. 318, 241).  
 20) Dimethylester d.  $\alpha\alpha$ -Di[Phenylamido]äthan-2,2'-Dicarbonsäure. Sm. 130—131° (J. pr. [2] 63, 259).  
 21) Di[4-Methoxyphenylamid] d. Bernsteinensäure. Sm. 243° (C. 1902 [2] 1449).
- $C_{15}H_{20}O_4N_4$  2) Verbindung (aus Phenylecyanat u. Urethanophenylloxamidin). Sm. 183° u. Zers. (B. 34, 377). — \*II, 821.
- $C_{15}H_{20}O_6S_2$  \*1) Äthylester d.  $\beta\beta$ -Di[Phenylsulfon]buttersäure. Sm. 98—99° (B. 34, 2660).
- $C_{15}H_{20}O_8N_2$  2) Tetramethyläther d.  $\alpha\beta$ -Di[6-Nitro-3,4-Dioxyphenyl]äthan. Sm. 206° (B. 35, 2610 C. 1902 [2] 595; B. 35, 2947 C. 1902 [2] 1051).
- $C_{15}H_{20}O_8N_6$  2)  $\alpha\beta$ -Di[ $\beta$ -Dinitro-2,4-Dimethylphenylamido]äthan. Sm. 220° (Soc. 79, 255).  
 3) isom.  $\alpha\beta$ -Di[ $\beta$ -Dinitro-2,4-Dimethylphenylamido]äthan. Sm. 52 bis 53° (Soc. 79, 255).

- $C_{18}H_{20}N_2S_4$  1) Dimethyläther d. Di[4-Methylphenylimidomerkaptomethyl]disulfid. Sm. 158° (*Bl.* [3] 27, 815 *C.* 1902 [2] 690).  
2) Disulfid d. Aethylphenylamidodithioameisensäure (Diäthylidiphenylthiuramdisulfid). Sm. 169—170° (*B.* 35, 821 *C.* 1902 [1] 712).
- $C_{18}H_{20}N_3J$  1) Jodmethylat d. Anilantipyrin. Sm. 174° (*B.* 34, 726).  
 $C_{18}H_{21}ON$  \* 5) 4-Isoamylphenylamid d. Benzolcarbonsäure. Sm. 147° (*B.* 34, 3680).  
8) Methyläther d.  $\alpha$ -[4-Methylphenyl]- $\beta$ -[1,2,3,4-Tetrahydro-2-Chinolinyl]äthan. Sm. 71°. HCl (*B.* 35, 2787 *C.* 1902 [2] 994).  
9) 4-tert. Amylphenylamid d. Benzolcarbonsäure. Sm. 158—159° (*B.* 34, 3680).
- $C_{18}H_{21}ON_2$  4) Nitril d.  $\alpha$ -[4-Aethoxyphenyl]amido- $\alpha$ -[4-Dimethylamidophenyl]-essigsäure. Sm. 100° (*B.* 35, 3574 *C.* 1902 [2] 1384).
- $C_{18}H_{21}O_2N$  \* 3) 4-Diäthylamidodiphenylmethan-2'-Carbonsäure. Sm. 108° (*Bl.* [3] 25, 202).  
16) Benzoat d. 2-Diäthylamido-4-Oxy-1-Methylbenzol. Sm. 36° (*C.* 1902 [2] 378).  
17) 2-Methylphenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 116—117° (*B.* 34, 1847).  
18) 3-Methylphenylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 89—90° (*B.* 34, 1848).  
19) 4-Methylphenylester d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 122° (*B.* 34, 1850).
- $C_{18}H_{21}O_2N_3$  4) Aethyläther d.  $\alpha$ -Phenylhydrazon- $\alpha$ -[5-Acetylamido-2-Oxyphenyl]-äthan. Zers. bei 180° (*B.* 34, 127).  
5) Nitroso- $\delta$ -Cinchonin (*M.* 22, 166).  
6) Di[2-Methylphenylamid] d. Imidodiessigsäure. Sm. 155° (*D.R.P.* 59121). — \*II, 251.  
7) Di[3-Methylphenylamid] d. Imidodiessigsäure. Sm. 150,5° (*D.R.P.* 59121). — \*II, 261.
- $C_{18}H_{21}O_3N$  \* 2) Codein (*D.R.P.* 131980 *C.* 1902 [2] 80).  
\* 7) 4-Diäthylamido-3-Oxydiphenylmethan-2'-Carbonsäure. Sm. 194° (*Bl.* [3] 25, 204).  
16) Isocodein. Sm. 144° (*Soc.* 79, 576).  
17) Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan. Sm. 82° (*B.* 35, 2264 *C.* 1902 [2] 276).
- $C_{18}H_{21}O_4N$  10) Benzoylmezealin. Sm. 120,5° (*B.* 34, 3011).  
11) 4-Aethoxylphenylamid d. Oxyessig-2-Methoxyl-4-Methylphenyläthersäure. Sm. 80—82° (*D.R.P.* 83535). — \*II, 580.
- $C_{18}H_{21}O_4N_3$  2) Di[3-Methoxylphenylamid] d. Imidodiessigsäure. Sm. 116° (*D.R.P.* 59121). — \*II, 395.  
3) Di[4-Methoxylphenylamid] d. Imidodiessigsäure. Sm. 142° (*D.R.P.* 59121). — \*II, 403.
- $C_{18}H_{21}O_6N_5$  C 53,6 — H 5,2 — O 23,8 — N 17,4 — M. G. 403.  
1)  $\beta$ -Trinitro- $\alpha$ - $\beta$ -Di[2,4-Dimethylphenylamido]äthan. Sm. 191—192° (*Soc.* 79, 256).
- $C_{18}H_{22}ON_2$  17) Aethyläther d. 3- $\beta$ -Oxypropyl-1,2-Diphenyl-1,2-Dihydro-R-Azimeethylen. Sm. 67—68° (*J. pr.* [2] 64, 158).  
18)  $\delta$ -Cinchonin siehe auch  $C_{18}H_{22}ON_2$ . Sm. 141,5—142°. HCl + 1½H<sub>2</sub>O, 2HJ (*M.* 22, 160).  
19) Base (aus Hydrojodeinchonin). HJ (*M.* 22, 167).
- $C_{18}H_{22}O_2N_2$  16) Diäthyläther d.  $\alpha$ -[2-Oxyphenyl]amido- $\alpha$ -[4-Oxyphenyl]imidoäthan. Sm. 75° (*D.R.P.* 80568). — \*II, 402.
- 17) Diphenyläther d. 1,4-Di[Oxymethyl]hexahydro-1,4-Diazin. Sm. 110° (*D.R.P.* 89979). — \*II, 354.
- $C_{18}H_{22}O_2N_4$  9) Di-4-Nitrosodimethylanilinäthylen. Zers. bei 230—240°. Pikrat (*Am.* 28, 113 *C.* 1902 [2] 791).  
10) Di[Methylphenylhydrazon] d. i-Erythrose. Sm. 158—159° (*B.* 35, 2627 *C.* 1902 [2] 575).
- $C_{18}H_{22}O_3N_2$  11) Phenylbenzylhydrazon d. Methyltetrose. Sm. 96—97° (*B.* 35, 2363 *C.* 1902 [2] 511).  
12) Phenylbenzylhydrazon d. Pentantriolon. Sm. 124—126° (*B.* 35, 2369 *C.* 1902 [2] 511).
- $C_{18}H_{22}O_4N_2$  9) Tetramethyläther d. 4,4'-Di[Dioxymethyl]azobenzol. Sm. 118° (*C. r.* 134, 1359 *C.* 1902 [2] 195).

- $C_{18}H_{22}O_4N_4$  \*4) Di[Phenylhydrazon] d. Dulcit. Sm. 207° (B. 34, 1534).
- 18)  $\beta$ -Dinitro-4,4'-Di[Diäthylamido]biphenyl. Sm. 114° (C. 1901 [2] 1375).
- $C_{18}H_{22}O_4S_2$  1)  $\alpha\beta$ -Di[2,4-Dimethylphenylsulfon]äthan. Sm. 163° (J. pr. [2] 66, 132 C. 1902 [2] 795).
- 2) isom.  $\alpha\beta$ -Di[2,4-Dimethylphenylsulfon]äthan. Sm. 146° (J. pr. [2] 66, 134 C. 1902 [2] 796).
- 3)  $\alpha\beta$ -Di[2,5-Dimethylphenylsulfon]äthan. Sm. 174° (J. pr. [2] 66, 135 C. 1902 [2] 796).
- $C_{18}H_{22}O_5N_4$  \*9) Di[Phenylhydrazid] d. d-Zuckersäure. Sm. 211° (B. 34, 493).
- $C_{18}H_{22}NJ$  1) Äthyläthylphenylbenzylammoniumjodid. Zers. bei 110—112° (A. 318, 97).
- 2) Jodäthylat d. 2-Benzyl-1,2,3,4-Tetrahydroisochinolin. Sm. 133° u. Zers. (B. 34, 3991 C. 1902 [1] 211).
- $C_{18}H_{22}N_7S$  4)  $\alpha\alpha$ -Diäthyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 112—113° (Am. 26, 355).
- $C_{18}H_{22}N_4S_2$  1) Verbindung (aus Formaldehyd, Methylanilin u. Rubeanwasserstoff). Sm. 139° (C. 1899 [2] 1025). — \*II, 233.
- $C_{18}H_{22}ClP$  1) Di[2,4,5-Trimethylphenyl]chlorphosphin. Sd. 305° (A. 315, 71).
- $C_{18}H_{23}ON_3$  10-Methyloxydhydrat d. 2,8-Di[Dimethylamido]akridin. Nitrat (B. 34, 4315 C. 1902 [1] 323).
- $C_{18}H_{23}O_2N_3$  3)  $\beta$ -Nitro- $\alpha\beta$ -Di[2,4-Dimethylphenylamido]äthan. Sm. 152—154° (Soc. 79, 256).
- $C_{18}H_{23}O_3N$  2) Äthylester d. 2-Keto-6-Methyl-4-[4-Isopropylphenyl]-1,2,3,4-Tetrahydropyridin-5-Carbonsäure. Sm. 182—183° (B. 35, 2174 C. 1902 [2] 373).
- 3) 4-Aethoxyphenylimid d. Camphersäure. Sm. 112° (C. 1901 [1] 1375).
- $C_{18}H_{23}O_7N_3$  C 54,9 — H 5,9 — O 28,5 — N 10,7 — M. G. 393.
- $\beta\gamma$ -Di[4-Nitrophenylhydrazon]butan. Sm. 200° (B. 35, 3296 C. 1902 [2] 1247).
- $C_{18}H_{23}N_3S_2$  1) Di[4-Dimethylamidophenyl]methylamidodithioameisensäure. Leukauraminsalz (Sm. 162°) (B. 35, 380 C. 1902 [1] 589).
- $C_{18}H_{24}ON_2$  2) Methyläther d.  $\alpha$ -Oxydi[4-Dimethylamidophenyl]methan. Sm. 71 bis 72° (C. 1902 [1] 471).
- $C_{18}H_{24}N_2As_2$  1) 3,3'-Di[Dimethylamido]-4,4'-Dimethylarsenobenzol. Sm. 75° (A. 320, 320 C. 1902 [1] 921).
- $C_{18}H_{24}N_3J$  1) Jodmethylat d. Auramin. Sm. 235—240° (B. 35, 2618 C. 1902 [2] 593).
- $C_{18}H_{24}ClP$  2) Methyläthylphenyl-2,4,5-Trimethylphenylphosphoniumchlorid. 2+ PtCl<sub>4</sub> (A. 315, 75).
- $C_{18}H_{24}JP$  1) Methyläthylphenyl-2,4,5-Trimethylphenylphosphoniumjodid (A. 315, 75).
- $C_{18}H_{25}O_8N$  C 56,4 — H 6,5 — O 33,4 — N 3,7 — M. G. 383.
- 1) Tetraäthylester d. Pyrrol-2,4-Dicarbonsäure-3,5-Di[Methylcarbonsäure]. Sm. 113—113,5° (B. 35, 1556 C. 1902 [1] 1228).
- $C_{18}H_{27}O_3Br$  1) Tetraäthylester d. 1,1-Dimethyl-R-Trimethylen-2,3-Dicarbonsäure-2-Brommethyldicarbonsäure. Fl. (Soc. 79, 769).
- $C_{18}H_{27}O_{11}N$  C 49,9 — H 6,2 — O 40,7 — N 3,2 — M. G. 433.
- 1) Pentaacetat d.  $\zeta$ -Acetylamido- $\alpha\beta\gamma\delta\epsilon$ -Pentaoxyhexan (P. d. Acetylglykamin). Sm. 70° (C. r. 134, 292 C. 1902 [1] 565).
- $C_{18}H_{25}O_2N_2$  2) Phenylamidoformiat d.  $\beta$ -Oximidoodekan. Sm. 39—41° (C. 1901 [1] 524).
- $C_{18}H_{25}O_{10}N_2$  4) Phenylhydrazon d. Cellobiose. Zers. bei 90° (M. 22, 1031 C. 1902 [1] 183).
- $C_{18}H_{29}ON$  \*2) Phenylamid d. Laurinsäure. Sm. 76,5° (Am. 27, 306 C. 1902 [1] 1303).
- $C_{18}H_{29}O_3N$  2)  $\beta$ -Undekylester d. Phenylamidoameisensäure. Sm. 36,5—37° (B. 35, 2144 C. 1902 [2] 260).
- $C_{18}H_{34}O_4N_2$  2)  $\epsilon$ -Dioximidoheptadekan- $\alpha$ -Carbonsäure. Sm. 166—167° (C. r. 134, 548 C. 1902 [1] 858).
- $C_{18}H_{35}O_3N$  3)  $\epsilon$ -[ $\alpha$ -Dodekanoyl]amidopentan- $\alpha$ -Carbonsäure (C. r. 134, 842 C. 1902 [1] 1155).
- 4)  $\zeta$ -Oximidoheptadekan- $\alpha$ -Carbonsäure. Fl. (C. r. 134, 549 C. 1902 [1] 858).
- 5) Undekylamid d. Pentan- $\alpha\epsilon$ -Dicarbonsäure (C. r. 134, 842 C. 1902 [1] 1155).



- $C_{18}H_{35}O_4N$  3) Monamid d. Säure  $C_{18}H_{34}O_2$  (aus Dioxystearinsäure). Sm. 136°. Ag (Soc. 79, 1322 C. 1902 [1] 179).
- $C_{18}H_{36}O_2N_2$  4) s-Acetylalmitylhydrazin (Acetylhydrazid d. Palmitinsäure). Sm. 129° (J. pr. [2] 64, 427 C. 1902 [2] 24).
- 5) Pinakon d. Methylgranatonin. (2HCl, PtCl<sub>4</sub>), 2(HCl, AuCl<sub>3</sub>), Pikrat (G. 31 [1] 568).
- $C_{18}H_{16}O_2S_2$  1) Aethylester d.  $\beta\beta$ -Dimerkapto- $\alpha$ -Aethylbutterdiisoamyläthersäure. Fl. (B. 34, 2667).
- $C_{18}H_{36}O_5N_2$  2) Diamid d. Säure  $C_{18}H_{34}O_5$  (aus Dioxystearinsäure). Sm. 141° (Soc. 79, 1320 C. 1902 [1] 179).
- $C_{18}H_{36}O_6S_2$  1) Aethylester d.  $\beta\beta$ -Di[Isoamylsulfon]- $\alpha$ -Aethylbuttersäure. Fl. (B. 34, 2667).
- $C_{18}H_{37}O_2N$  \*3) Aethylester d. Pentadekylamidoameisensäure. Sm. 51° (J. pr. [2] 64, 432 C. 1902 [1] 24).
- $C_{18}H_{44}O_2As_2$  2) Hexaisopropyldiarsoniumhydroxyd. Salze siehe (B. 31, 597). — \*I, 852.

- $C_{18}HNC_3S_3$  1) Verbindung (aus Akridin). Sm. 306° (J. pr. [2] 64, 195).
- $C_{18}H_5O_4NCl_4$  1) 3,4,5,6-Tetrachlor-1-[4-Diäthylamido-3-Oxybenzoyl]benzol-2-Carbonsäure. Sm. 198° (Bl. [3] 25, 746).
- $C_{18}H_9O_2N_2J_3$  1) Phenylhydrazon d.  $\beta$ -Trijodnaphtalin-1,8-Dicarbonsäureanhydrid. Sm. 305–310° u. Zers. (G. 32 [2] 93 C. 1902 [2] 901).
- $C_{18}H_{10}O_2NBr$  1) Bromchinophthalon. Sm. 174° (179°) (A. 315, 339; B. 35, 1656, 1661 C. 1902 [1] 1369).
- $C_{18}H_{10}O_2NCl$  1) Benzoat d. Pyridylehlordioxy-1,4-Benzochinon (C. r. 133, 235).
- $C_{18}H_{11}ON_2Br$  1) Brom- $\alpha$ -Chinophthalin. Sm. 50–100° (A. 315, 349).
- 2) Brom- $\beta$ -Chinophthalin. Sm. 56–59° (A. 315, 352).
- $C_{18}H_{11}ON_2Br_3$  1) Tribromdihydro- $\beta$ -Chinophthalin. Sm. 170° (A. 315, 352).
- $C_{18}H_{11}O_2NBr_2$  1) Verbindung (aus Isochinophthalon). Sm. bei 200° (B. 35, 2300 C. 1902 [2] 375).
- $C_{18}H_{11}O_2NBr_4$  1) Chinophthalontetrabromid. Sm. 235° u. Zers. (A. 315, 340; B. 35, 1657 C. 1902 [1] 1369).
- $C_{18}H_{11}O_2NBr_6$  1) Chinophthalonhexabromid (B. 35, 1661 C. 1902 [1] 1369).
- $C_{18}H_{11}O_2N_2Br$  1) Acetat d. 6-Brom-5-Oxy- $\alpha\beta$ -Naphthophenazin. Sm. 221° (B. 34, 1054).
- 2) Phenylhydrazon d.  $\beta$ -Bromnaphtalin-1,8-Dicarbonsäureanhydrid. Sm. 222–223° (G. 32 [2] 89 C. 1902 [2] 900).
- $C_{18}H_{12}O_3N_2S_2$  1) Anhydrid d. 3-Sulfanilidophenazthioniumhydroxyd (A. 322, 42 C. 1902 [2] 223).
- 2) Anhydrid d. 4-Sulfanilidophenazthioniumhydroxyd (D.R.P. 126410 C. 1902 [1] 87).
- $C_{18}H_{12}O_6N_2As$  1) Tri[ $\beta$ -Nitrophenyl]arsin. Sm. 250° (A. 321, 180 C. 1902 [2] 45).
- $C_{18}H_{12}N_2Br_4S_2$  1) Thiochinanthrentetrabromid. 2HBr (J. pr. [2] 66, 224 C. 1902 [2] 1131).
- 2) isom. Thiochinanthrentetrabromid. 2HBr (J. pr. [2] 66, 224 C. 1902 [2] 1131).
- $C_{18}H_{13}ON_2Cl$  3) 3-Phenylamidophenoxazoniumchlorid (B. 34, 1625; A. 322, 13 C. 1902 [2] 221).
- $C_{18}H_{13}ON_2Br$  3) Aethyläther d. 6-Brom-5-Oxy- $\alpha\beta$ -Naphthophenazin. Sm. 173° (B. 34, 1054).
- $C_{18}H_{13}O_2NCl_4$  1) 5,6,7,8-Tetrachlor-2-Diäthylamido-9,10-Anthrachinon. Sm. 144° (Bl. [3] 25, 748).
- $C_{18}H_{13}O_2NBr_2$  1) Dibromdihydrimonophthalidylehinaldin. Sm. 104° (A. 315, 345).
- $C_{18}H_{13}O_2N_2Br$  1) Acetat d. 2-Oxy-1-[2-Bromphenylazo]naphtalin. Sm. 157° (Soc. 81, 1206 C. 1902 [2] 894).
- 2) Acetat d. 2-Oxy-1-[3-Bromphenylazo]naphtalin. Sm. 88° (Soc. 81, 1206 C. 1902 [2] 894).
- 3) Acetat d. 2-Oxy-1-[4-Bromphenylazo]naphtalin. Sm. 136° (Soc. 81, 1206 C. 1902 [2] 894).
- 4) Acetat d. 4-Oxy-1-[2-Bromphenylazo]naphtalin. Sm. 123° (Soc. 81, 176 C. 1902 [1] 354).

- $C_{18}H_{13}O_2N_2Br$  5) Acetat d. 4-Oxy-1-[3-Bromphenylazo]naphtalin. Sm. 112° (Soc. 81, 176 C. 1902 [1] 354).
- 6) Acetat d. 4-Oxy-1-[4-Bromphenylazo]naphtalin. Sm. 141° (Soc. 81, 176 C. 1902 [1] 354).
- 7) Acetat d. p-Brom-4-Oxy-1-Phenylazonaphtalin. Sm. 146° (Soc. 81, 175 C. 1902 [1] 354).
- $C_{18}H_{13}O_3NCl_4$  1) 5,6,7,8-Tetrachlor-3-Diäthylamido-1-Oxy-9,10-Anthrachinon. Sm. 192° (Bl. [3] 25, 749).
- $C_{18}H_{13}O_3NS$  1) 10-Methyl- $\alpha$ -Phenakridin- $\beta$ -Sulfonsäure (B. 33, 911).
- $C_{18}H_{13}O_3N_2S$  2) Resorcinazothiodiphenylaminsulfoxyd (A. 322, 66 C. 1902 [2] 225).
- $C_{18}H_{13}O_4NCl_4$  \* 1) Gem. Anhydrid d. Essigsäure u. 3,4,5,6-Tetrachlor-1-[4-Dimethylamidobenzoyl]benzol-2-Carbonsäure. Sm. 196° (Bl. [3] 25, 600).
- $C_{18}H_{13}O_6N_4Cl$  1) 4-Chlor-2,6-Dinitro-1,3-Di[4-Oxyphenylamido]benzol. Zers. bei 215° (C. 1902 [1] 288).
- $C_{18}H_{13}N_2ClS$  1) 3-Phenylamidophenazthioniumchlorid (A. 322, 39 C. 1902 [2] 223; D.R.P. 126410 C. 1902 [1] 87).
- $C_{18}H_{14}O_3N_2S_2$  1)  $\beta$ -[1,2-Phthyl]amidoäthylester d. Benzoylamidodithioameisen-säure. Sm. 178—182° (Ann. 26, 201).
- $C_{18}H_{14}O_4N_3As$  1) p-Dinitro- $\beta$ -Amidotriphenylarsin. Sm. 205° (A. 321, 185 C. 1902 [2] 45).
- $C_{18}H_{14}O_{12}N_4S_4$  \* 1) 4,6-Dinitro-1,3-Di[4-Oxyphenylamido]benzol-1<sup>3</sup>,3<sup>3</sup>-Disulfon-säure (C. 1901 [1] 1395).
- $C_{18}H_{15}ON_2Br$  1) Äthyläther d. p-Brom-4-Oxy-1-Phenylazonaphtalin. Sm. 220° (Soc. 81, 175 C. 1902 [1] 354).
- $C_{18}H_{15}OCl_2As$  1) Phenyläther d. Diphenyloxyarsendichlorid. Sm. 121—122° (A. 321, 144 C. 1902 [2] 42).
- $C_{18}H_{15}OBr_2As$  1) Phenyläther d. Diphenyloxyarsendibromid. Sm. 100° (A. 321, 145 C. 1902 [2] 42).
- $C_{18}H_{15}O_2N_3S$  2) 4-Phenylamido-1-Phenylsulfondiazobenzol. Sm. 82° (B. 35, 895 C. 1902 [1] 867).
- $C_{18}H_{15}O_3NCl_4$  \* 1) 3,4,5,6-Tetrachlor-1-[4-Diäthylamidobenzoyl]benzol-2-Carbon-säure. Sd. 222° (Bl. [3] 25, 601).
- \* 2) Äthylester d. 3,4,5,6-Tetrachlor-1-[4-Dimethylamidobenzoyl]-benzol-2-Carbonsäure. Sm. 143° (Bl. [3] 25, 600).
- $C_{18}H_{15}O_4NCl_2$  \* 1) Gem. Anhydrid d. Essigsäure u. 3,4-Dichlor-4'-Dimethyl-amidodiphenylketon-2-Carbonsäure (Bl. [3] 25, 504).
- $C_{18}H_{15}O_4N_2BrS_2$  1) Di[Phenylamid] d. 4-Brombenzol-1,2-Disulfonsäure. Sm. 182° (C. 1900 [2] 371). — \*II, 223.
- $C_{18}H_{15}O_6N_3S$  1) 2-Oxy-1-[5-Nitro-2,4-Dimethylphenylazo]naphtalin-1<sup>6</sup>-Sulfon-säure + 5H<sub>2</sub>O (B. 35, 3766 C. 1902 [2] 1453).
- $C_{18}H_{15}O_{10}S_3As$  1) Triphenylarsinoxyd- $\beta$ -Trisulfonsäure. Ba<sub>3</sub> (A. 321, 186 C. 1902 [2] 45).
- $C_{18}H_{15}N_4ClS$  1) 1,3-Diamido-6-Phenylamidophenazthioniumchlorid (A. 322, 61 C. 1902 [2] 225).
- $C_{18}H_{15}Br_3J_2As$  2) Triphenylarsendibromiddijodid. Sm. 120—121° (A. 321, 164 C. 1902 [2] 44).
- $C_{18}H_{16}OClAs$  1) Triphenylarsenoxydchlorid. Sm. 171°. 3 + PtCl<sub>4</sub> (A. 201, 243; A. 321, 162 C. 1902 [2] 44).
- $C_{18}H_{16}O_3ClBr$  1)  $\alpha$ -Acetylchlorbromdiphenacyl. Sm. 122° (B. 34, 1611).
- 2)  $\beta$ -Acetylchlorbromdiphenacyl. Sm. 91° (B. 34, 1611).
- $C_{18}H_{16}O_4N_2S$  5) 2-Oxy-1-[2,4-Dimethylphenylazo]naphtalin-1<sup>6</sup>-Sulfonsäure. Na + 3H<sub>2</sub>O (B. 35, 3765 C. 1902 [2] 1453).
- $C_{18}H_{16}O_4N_2S_2$  6) Di[Phenylamid] d. Benzol-1,3-Disulfonsäure. Sm. 143° (146 bis 147°) (B. 35, 1396 C. 1902 [1] 1096; B. 35, 1959 C. 1902 [2] 111).
- $C_{18}H_{17}O_2NCl_4$  1) 3,4,5,6-Tetrachlor-1-[4-Diäthylamidobenzyl]benzol-2-Carbon-säure. Sm. 148° (Bl. [3] 25, 603).
- $C_{18}H_{17}O_3N_2Cl$  4) Laktone d.  $\epsilon$ -Chlor- $\alpha$ -Phenylhydrazon- $\delta$ -Oxy- $\alpha$ -Phenylpentan- $\beta$ -Carbonsäure. Sm. 148—150° (C. 1901 [2] 268).
- $C_{18}H_{17}O_3N_2Br$  1)  $\beta$ -Brom- $\gamma$ -[4-Methylphenyl]imido- $\alpha$ -[4-Methylphenyl]amido-propen- $\alpha$ -Carbonsäure (p-Tolilmuko-p-Toluidopropionsäure). Zers. bei 165—168° (B. 34, 516).
- $C_{18}H_{17}O_3N_3S$  3) Äthylacetat d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 67° (Ann. 27, 266 C. 1902 [1] 1299).

- $C_{13}H_{17}O_3NCl_4$  1) 3,4,5,6-Tetrachlor-1-[4-Diäthylamido-2-Oxybenzyl]benzol-2-Carbonsäure. Sm. 205° (*Bl.* [3] 25, 748).
- $C_{13}H_{17}O_3NS$  4) Phenylamid d. 1-Oxynaphtalinäthyläther-4-Sulfonsäure. Sm. 178° (*B.* 34, 3182). — \*II, 511.
- 5) Phenylamid d. 2-Oxynaphtalinäthyläther-7-Sulfonsäure. Sm. 153° (*B.* 29 [2] 665). — \*II, 532.
- $C_{18}H_{17}O_8NS_2$  1) Phenyllessigsäureäthylesterderivat d. Benzoylamidodithioameisensäure. Sm. 150—154° (*Am.* 26, 353).
- $C_{18}H_{17}O_4NS$  2) 6-[3,4-Dimethylphenyl]amido-1-Oxynaphtalin-3-Sulfonsäure (*C.* 1901 [2] 670).
- $C_{18}H_{17}O_5NS$  1)  $\beta$ -Diäthylamido-9,10-Anthrachinon-1-Sulfonsäure (D.R.P. 136777 *C.* 1902 [2] 1373).
- $C_{18}H_{17}O_6N_3S$  1) 1-Diäthylamidoazo-9,10-Anthrachinon-2-Sulfonsäure. Na (*B.* 35, 2600 *C.* 1902 [2] 595).
- $C_{18}H_{17}O_6NS$  1) 3-Diäthylamido-1-Oxy-9,10-Anthrachinon-4-Sulfonsäure? Ca, Ba (*Bl.* [3] 25, 209).
- $C_{18}H_{18}ON_2S$  3) 3,5-Dimethyl-1-[6-Acetylamido-3-Methylphenyl]benzthiazol. Sm. 198° (*J. pr.* [2] 65, 151 *C.* 1902 [1] 991).
- 4) 4- oder 6-Acetylamido-3,5-Dimethyl-1-[3-Methylphenyl]benzthiazol. Sm. 244° (*J. pr.* [2] 65, 155 *C.* 1902 [1] 991).
- $C_{13}H_{18}O_2N_2Cl_2$  3)  $\alpha\beta$ -Diacetyl- $\alpha\beta$ -Di[2-Chlorbenzyl]hydrazin. Sm. 102° (*B.* 34, 850).
- 4) Dichlorid d.  $\alpha\beta$ -Di[2-Methylphenylamido]äthan-NN-Dicarbon-säure. Sm. 163° (*B.* 34, 1512).
- $C_{18}H_{15}O_2N_2Cl_4$  1) Phenylhydrazon d.  $\beta$ -Tetrachlornaphtalin-1,8-Dicarbon-säure-anhydrid. Sm. 269—270° (*G.* 32 [2] 84 *C.* 1902 [2] 900).
- $C_{18}H_{18}O_2Cl_3Se$  1) Di[ $\beta$ -Benzoyläthyl]selenidchlorid (Dichlorselenopropiophenon). Sm. 124° (*A.* 314, 289).
- 2) Di[4-Methylbenzoylmethyl]selenidchlorid (Dichlorselenomethyl-p-Tolykton). Sm. 132° (*A.* 314, 290).
- $C_{18}H_{18}O_2Br_2Se$  1) Di[4-Methylbenzoylmethyl]selenidbromid (Dibromselenomethyl-p-Tolykton). Sm. 112° (*A.* 314, 292).
- $C_{18}H_{18}O_2Br_2S$  \*1) Di[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]sulfid. Sm. 245—246° (*B.* 34, 4277 *C.* 1902 [1] 309).
- $C_{18}H_{18}O_2S_3Te$  1) Diäthyläther d. Ditellurodi[4-Oxyphenyl]trisulfid. Sm. 114° (*A.* 315, 14).
- $C_{18}H_{18}O_2S_5Te$  1) Diäthyläther d. Ditellurodi[4-Oxyphenyl]pentasulfid. Sm. 92° (*A.* 315, 15).
- $C_{18}H_{18}O_3N_3S$  1) Nitrocytisinphenylthioharnstoff. Sm. 252—253° u. Zers. (*B.* 34, 613).
- $C_{18}H_{18}O_4Cl_2Se$  1) Dimethyläther d. Di[4-Oxybenzoylmethyl]selenidchlorid (Dichlorselenomethylanisylkton). Sm. 122° (*A.* 314, 289).
- $C_{18}H_{18}O_{16}N_4S_2$  1) Aescorcorinsulfonsäure. Na<sub>3</sub>, Na<sub>6</sub> (*B.* 34, 2612).
- $C_{18}H_{18}N_2ClJ$  1) Jodmethylat d. 5-Chlor-3-Methyl-1-Phenyl-4-Benzylpyrazol. Sm. 167° (*B.* 34, 1308).
- $C_{18}H_{19}ON_2J$  1) Jodäthylat d.  $\alpha$ -Imido- $\alpha$ -[4-Methylbenzoyl]methylenamido- $\alpha$ -Phenylmethan. Sm. 218° (*B.* 34, 3027).
- $C_{18}H_{19}OSP$  1) Aethyl ester d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 41—42° (*A.* 315, 69).
- $C_{18}H_{20}ON_2S$  5) Propyläther d. Benzoylimido-4-Methylphenylamidomerkapto-methan (Benzoyl-p-Tolythiolpropylpseudothioharnstoff). Sm. 81 bis 81,5° (*Am.* 26, 415).
- $C_{18}H_{20}O_2N_2S_2$  5) Di[Phenylamid]d. Diäthyl-disulfid- $\alpha,\alpha'$ -Dicarbonsäure (Di[Phenylamid] d.  $\alpha$ -Dithiomilchsäure). Sm. 160° (*C.* 1902 [2] 190 *C.* 1902 [2] 933).
- $C_{18}H_{20}O_2NBr$  \*1) Bromcodein. Sm. 162° (*Soc.* 79, 575).
- $C_{18}H_{20}O_6NBr$  1) Diäthylester d.  $\alpha$ -Brom- $\delta$ -[1,2-Phtalylimido]butan- $\alpha\alpha$ -Dicarbon-säure. Sm. 51° (*B.* 34, 457).
- $C_{18}H_{22}ONBr$  1) Methyläthyl-4-Methylphenylphenacylammoniumbromid. Sm. 116—117° (*B.* 35, 776 *C.* 1902 [1] 721).
- $C_{18}H_{22}O_3NJ$  3) Jodmethylat d.  $\beta$ -Isomorphin. Sm. 250° u. Zers. (*Soc.* 79, 572).
- $C_{18}H_{22}O_4N_4Br_2$  1) Di[4-Bromphenylhydrazon] d. d-Gulose. Sm. 181° (*C.* 1902 [1] 1241).
- $C_{18}H_{22}O_5NCl$  1) Phenylamid d. Chlortriacetyl-galaktosensäure. Sm. 187,5° (*B.* 35, 947 *C.* 1902 [1] 859).

- $C_{15}H_{25}O_2NS$  3) Phenylamid d. 1,2,4-Triäthylbenzol-*p*-Sulfonsäure. Sm. 108° (*J. pr.* [2] 65, 400 *C.* 1902 [1] 1324).
- $C_{15}H_{23}O_3N_3S$  4) Phenylamid d. 1,3,5-Triäthylbenzol-2-Sulfonsäure. Sm. 128° (*J. pr.* [2] 65, 397 *C.* 1902 [1] 1324).
- $C_{15}H_{24}O_4NCl$  1) 4-Dipropylamidoazobenzol-4-Sulfonsäure +  $H_2O$ . Ba +  $H_2O$  (*B.* 35, 3536 *C.* 1902 [2] 1503).
- $C_{15}H_{24}O_4NBr$  \*2) Chlormethylat d. 1-Scopolamin +  $H_2O$  (Ch. d. Hyoscin). Sm. 189° wasserfrei. +  $AuCl_3$  (*J. pr.* [2] 64, 367).
- $C_{15}H_{24}O_4NBr$  3) Chlormethylat d. Atroscin +  $H_2O$ . +  $AuCl_3$  (*J. pr.* [2] 64, 376).
- $C_{15}H_{24}O_4NBr$  1) Brommethylat d. Atroscin +  $H_2O$ . Sm. 207° wasserfrei (*J. pr.* [2] 64, 376).
- $C_{15}H_{24}O_4NBr$  2) Brommethylat d. 1-Scopolamin +  $H_2O$  (Br. d. Hyoscin). Sm. 214° wasserfrei (*J. pr.* [2] 64, 368).
- $C_{15}H_{24}O_4NJ$  \*3) Jodmethylat d. 1-Scopolamin (J. d. Hyoscin). Sm. 208° (*J. pr.* [2] 64, 367).
- $C_{15}H_{24}O_4NJ$  4) Jodmethylat d. Atroscin +  $H_2O$ . Sm. 202° wasserfrei (*J. pr.* [2] 64, 376).
- $C_{15}H_{24}O_4N_3S_2$  2)  $\alpha$ -Di[Sulfonamido]hexan. Sm. 153,5° (*J. r.* 28, 562).
- $C_{15}H_{24}NSP$  1) Diäthylamid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 177—178° (*A.* 315, 68).
- $C_{15}H_{23}ON_2S$  1) Aethyläther d. Benzoylimidodiisobutylamidomerkaptomethan (Benzoyldiisobutylthioläthylpseudothioharnstoff). Sd. 234—236°<sub>21</sub> (*Am.* 26, 413).
- $C_{15}H_{29}O_6NS_2$  1)  $\alpha\alpha$ -Di[Isoamylsulfon]- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 130—133° (*B.* 35, 2350 *C.* 1902 [2] 517).

## — 18 V —

- $C_{18}H_9O_6N_3Cl_3As$  1) Tri[*p*-Chlor-*p*-Nitrophenyl]arsin. Sm. 252° (*A.* 321, 182 *C.* 1902 [2] 45).
- $C_{18}H_9O_6N_3Cl_2As$  1) Tri[*p*-Chlor-*p*-Nitrophenyl]arsindichlorid. Sm. 228° (*A.* 321, 181 *C.* 1902 [2] 45).
- $C_{18}H_9O_7N_3Cl_3As$  1) Tri[*p*-Chlor-*p*-Nitrophenyl]arsinoxid. Sm. 257° (*A.* 321, 182 *C.* 1902 [2] 45).
- $C_{18}H_{12}O_6N_3Br_2As$  1) Tri-*p*-Nitrophenyl]arsindibromid. Sm. 204° (*A.* 321, 181 *C.* 1902 [2] 45).
- $C_{18}H_{16}O_{16}N_3Br_2S_2$  1) Dibromäscorzeinsulfonsäure.  $Na_3$  (*B.* 34, 2614).
- $C_{18}H_{17}ON_2ClS$  1) Benzoat d. 5-Merkapto-3-Methyl-1-Phenylpyrazol-2-Chlormethylat. Sm. 100° (*A.* 320, 16 *C.* 1902 [1] 665).
- $C_{18}H_{42}O_6N_6Cl_2Fe$  1) Verbindung (aus Ferroeyanwasserstoff,  $HCl$  u. Aethylalkohol) (*B.* 35, 1203 *C.* 1902 [1] 997).

## — 18 VI —

- $C_{18}H_9O_6N_3Cl_3Br_2As$  1) Tri[*p*-Chlor-*p*-Nitrophenyl]arsindibromid. Sm. 209° (*A.* 321, 182 *C.* 1902 [2] 45).

 **$C_{19}$ -Gruppe.**

- $C_{19}H_{15}$  1) Triphenylmethyl. Sm. 125—128°. +  $C_6H_5$ , + 2 Molec. Aether, 2 + Essigsäureäthylester (*B.* 33, 3150; 34, 2726; *B.* 34, 3815 *C.* 1902 [1] 44; *B.* 35, 1822 *C.* 1902 [2] 210). — \*II, 128.
- $C_{19}H_{16}$  \*1) Triphenylmethan (*M.* 22, 613; *Am.* 26, 499 *C.* 1902 [1] 475; *B.* 35, 1754 *C.* 1902 [2] 52; *B.* 35, 1811 *C.* 1902 [2] 53; *B.* 35, 1194 *C.* 1902 [1] 1005).
- $C_{19}H_{38}$  C 85,7 — H 14,3 — M. G. 266.
- $C_{19}H_{38}$  1) Kohlenwasserstoff (aus Petroleum). Sd. 210—212°<sub>50</sub> (*Am.* 28, 182 *C.* 1902 [2] 1081).
- $C_{19}H_{40}$  \*1) Nonadekan. Sm. 33—34°; Sd. 210—212°<sub>50</sub> (*Am.* 28, 181 *C.* 1902 [2] 1081).

## — 19 II —

- $C_{19}H_{12}O_3$  2) Methyläther d. Anhydrobisdiketodihydroinden. Sm. 196° (*B.* 34, 3271).

- $C_{19}H_{12}O_{10}$  2) Verbindung (aus Kosoextrakt). =  $(C_{19}H_{12}O_{10})_x$  (*Ar.* 239, 695 *C.* 1902 [1] 269).
- $C_{19}H_{14}O_2$  \*5) Benzoat d. 4-Oxybiphenyl. Sm. 147–148° (*J. pr.* [2] 63, 455).
- $C_{19}H_{14}O_4$  11) Monomethylester d. 1, 2-Diphenyl-R-Buten-3, 4-Dicarbonsäure. Sm. 207° u. Zers. Ag (*B.* 35, 1408 *C.* 1902 [1] 1156).
- 12) Phenylester d. 3-Acetoxylnaphtalin-2-Carbonsäure. Sm. 186,5° (*B.* 34, 4144 *C.* 1902 [1] 315).
- $C_{19}H_{14}O_5$  6) Formononetin. Sm. 265° (*M.* 23, 144 *C.* 1902 [1] 1104).
- 7) Resorcinsalicylein. Sm. 209° (D.R.P. 86319). — \*II, 889.
- $C_{19}H_{14}O_6$  \*13) Pinastrinsäure. Sm. 196–197° (*A.* 324, 56 *C.* 1902 [2] 904).
- 22) Oroxylin. Sm. 225° (*Soc.* 79, 954).
- 23) Aethylester d. 7-Benzoyl-1, 2-Benzpyron-4-Carbonsäure. Sm. 118° (*B.* 34, 383).
- $C_{19}H_{14}O_7$  4) Diacetat d. 5, 7-Dioxy-2-[4-Oxyphenyl]-1, 4-Benzpyron (D. d. Apigenin). Sm. 201° (*G.* 31 [1] 76).
- $C_{19}H_{14}O_9$  3) Hexaoxyaurin (Eupittonschwarz; Noreupiton).  $HCl + C_2H_5O$  (*B.* 34, 1033).
- $C_{19}H_{14}N_2$  \*1) 9-Phenylhydrazonfluoren. Sm. 151–152° (*B.* 35, 761 *C.* 1902 [1] 814).
- $C_{19}H_{14}N_4$  4) 4-Methyl-6, 7-Diphenyl-1, 3, 5, 8-Benztetrazin. Sm. 180–184° (*B.* 34, 1250).
- $C_{19}H_{15}N$  \*1)  $\alpha$ -Phenylimidodiphenylmethan. Sm. 116°.  $HCl$ ,  $HJ$  (*B.* 35, 991 *C.* 1902 [1] 870; *B.* 35, 2616 *C.* 1902 [2] 593).
- $C_{19}H_{15}N_3$  6) Methylidi- $\beta$ -Cyan- $\beta$ -Phenyläthenylamin. Sm. 88–89° (*J. pr.* [2] 55, 338). — \*II, 849.
- 7) 9-Phenylhydrazon-2-Amidofluoren. Sm. 148° (*B.* 34, 1765).
- 8) 4-Phenylimidomethylazobenzol. Sm. 125–130° (*Am.* 28, 47 *C.* 1902 [2] 701).
- $C_{19}H_{15}Cl$  \*1)  $\alpha$ -Chlortriphenylmethan. 2 +  $AlCl_3$ , +  $SnCl_4$ , +  $SbCl_5$  (*Am.* 25, 54; *B.* 34, 3818 *C.* 1902 [1] 44; *B.* 35, 2397 *C.* 1902 [2] 520; *B.* 35, 1837 *C.* 1902 [2] 213).
- $C_{19}H_{15}Br_6$  \*1)  $\alpha$ -Bromtriphenylmethanpentabromid (*B.* 35, 1831 *C.* 1902 [2] 212).
- $C_{19}H_{15}J$  \*1)  $\alpha$ -Jodtriphenylmethan. Sm. 132° (*B.* 35, 1835 *C.* 1902 [2] 212).
- $C_{19}H_{15}J_6$  1)  $\alpha$ -Jodtriphenylmethanpentajodid. Sm. 90° (*B.* 35, 1832 *C.* 1902 [2] 212).
- $C_{19}H_{16}O$  \*1)  $\alpha$ -Oxytriphenylmethan. Sm. 158–159°. Chromat (*C.* 1901 [1] 1357; *M.* 22, 609; *B.* 35, 2400 *C.* 1902 [2] 521; *B.* 35, 3015 *C.* 1902 [2] 1112).
- 6) 4-Oxytriphenylmethan. Sm. 110° (*B.* 35, 3137 *C.* 1902 [2] 1210).
- $C_{19}H_{16}O_2$  5)  $\alpha$ , 4-Dioxytriphenylmethan. Sm. 138–139°.  $Na$  (*B.* 34, 3073; *B.* 35, 3134 *C.* 1902 [2] 1209).
- $C_{19}H_{16}O_3$  10) Methylenäther d.  $\epsilon$ -Keto- $s$ -[4-Methylphenyl]- $\alpha$ -[3, 4-Dioxyphenyl]- $\alpha$ - $\gamma$ -Pentadien. Sm. 118–119° (*B.* 35, 1071 *C.* 1902 [1] 930).
- 11)  $\gamma$ -Keto- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadien- $\beta$ -Methylcarbonsäure ( $\beta\delta$ -Dibenzallävulinsäure). Sm. 145–146° (*A.* 258, 133; 319, 191).
- 12) isom. Dibenzallävulinsäure. Sm. 175–178° (*A.* 319, 190 *C.* 1902 [1] 106).
- 13) Aethylester d. 1-Keto-3-Phenylinden-2-Carbonsäure. Sm. 77° (u. 81,5°) (*B.* 35, 1730 *C.* 1902 [2] 55).
- 14) 3-Methylphenylester d. Oxyessig-2-Naphtyläthersäure. Sm. 91 bis 92° (D.R.P. 85490). — \*II, 522.
- $C_{19}H_{16}O_4$  12) Phenolsalicylein. Sm. 116–119° (D.R.P. 86319). — \*II, 887.
- $C_{19}H_{16}O_5$  \*1)  $\alpha$ -Trimethyläther d. Dehydrobrasilin. Sm. 198° (*B.* 35, 1672 *C.* 1902 [1] 1354; *Soc.* 81, 1043 *C.* 1902 [2] 749).
- 11) Diacetat d. 4, 7-Dioxy-2-Phenyl-1, 4-Benzpyran. Sm. 160° (*B.* 34, 3894 *C.* 1902 [1] 122).
- $C_{19}H_{16}O_6$  10) 5-Acetate d. 5, 7-Dioxy-2-[2-Oxyphenyl]-1, 4-Benzpyron-2<sup>2</sup>, 7-Dimethyläther. Sm. 96–97° (*B.* 34, 1456).
- $C_{19}H_{16}O_7$  3) Verbindung (aus Excoëcarin). Sm. 190° u. Zers. (*Soc.* 81, 215 *C.* 1902 [1] 532, 821, 822).
- $C_{19}H_{16}O_9$  2) Protocetrarsäure (*Ar.* 240, 553 *C.* 1902 [2] 1329).
- 3) Tetraacetat d. Purpurogallin. Sm. 182–183° (*C.* 1902 [1] 1055).
- $C_{19}H_{16}O_{10}$  \*4) Anhydroeuxanthinsäure. Ag (*A.* 318, 354).
- $C_{19}H_{16}N_2$  \*2) Diphenylbenzenylamidin. Sm. 144°.  $HCl$  (*B.* 34, 122).



- $C_{19}H_{10}N_2$  10) 3'-Dimethylamido-1,2-Naphtakridin. Sm. 185,5°. HCl, HNO<sub>3</sub>, H<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, Pikrat (*B.* 34, 4319 *C.* 1902 [1] 324).
- $C_{19}H_{16}N_4$  \*2) Phenylformazyl (*B.* 34, 527).
- 8) 4-Phenylhydrazonmethylazobenzol. Sm. 165—166° (154°) (*C. r.* 134, 1360 *C.* 1902 [2] 195; *Am.* 28, 47 *C.* 1902 [2] 701).
- $C_{19}H_{16}N_6$  2)  $\alpha\alpha$ -Diphenylazo- $\alpha$ -Phenylhydrazonmethan (Formazylazobenzol). Sm. 162—163°. Cu, Ag (*B.* 25, 3189, 3205, 3457; 27, 148; *J. pr.* [2] 64, 199; *G.* 31 [1] 583; *J. pr.* [2] 65, 138 *C.* 1902 [1] 995). — IV, 1492.
- $C_{19}H_{17}N$  \*4) 3-Methyltriphenylamin. Sm. 69—70° (*B.* 34, 39).
- 11)  $\alpha$ -Amidotriphenylmethan. Sm. 103° (*B.* 35, 1827 *C.* 1902 [2] 212).
- $C_{19}H_{17}N_3$  \*4)  $\alpha$ -Triphenylguanidin. Guajakolsulfonsaures Salz (*C.* 1901 [2] 472).
- 17) 4-Phenylimidomethyl-*s*-Diphenylhydrazin. Sm. 183—186° (*Am.* 28, 45 *C.* 1902 [2] 701).
- $C_{19}H_{17}N_5$  7) Azoverbindung (aus 3-Amidocarbazol u. 2,4-Diamido-1-Methylbenzol). Acetat (*B.* 34, 1680).
- $C_{19}H_{17}As$  1) Diphenyl-4-Methylphenylarsin. Sm. 50°. + HgCl<sub>2</sub>, (2HCl, PtCl<sub>4</sub>) (*A.* 321, 187 *C.* 1902 [2] 45).
- $C_{19}H_{18}O_2$  5)  $\alpha\delta$ -Diketo- $\alpha\beta$ -Diphenyl- $\gamma$ -Methyl- $\beta$ -Hexen. Sm. 128° (*Soc.* 79, 1036).
- 6) 1-Oxy-3-Keto-4-Aethyl-1,5-Diphenyl-2,3-Dihydro-*R*-Penten. Sm. 114° (*Soc.* 79, 1038).
- 7) 1-Oxy-3-Keto-2,2-Dimethyl-1,5-Diphenyl-2,3-Dihydro-*R*-Penten. Sm. 181° (*Soc.* 79, 1037).
- $C_{19}H_{19}O_3$  \*1) Dimethyläther d.  $\gamma$ -Keto- $\alpha\epsilon$ -Di[2-Oxyphenyl]- $\alpha\delta$ -Pentadiën. Sm. 125° (*B.* 35, 3023 *C.* 1902 [2] 1113).
- 9) Dimethyläther d.  $\gamma$ -Keto- $\alpha\epsilon$ -Di[3-Oxyphenyl]- $\alpha\delta$ -Pentadiën. Sm. 52—54° (*B.* 35, 3023 *C.* 1902 [2] 1113).
- 10) Dimethyläther d.  $\gamma$ -Keto- $\alpha\epsilon$ -Di[4-Oxyphenyl]- $\alpha\delta$ -Pentadiën (Dianisalacetone). Sm. 129—130°. 2 + 3H<sub>2</sub>SO<sub>4</sub>, 2 Pikrat (*B.* 35, 1192 *C.* 1902 [1] 1004).
- 11) 4-Cinnamylat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 90° (*D.R.P.* 68111). — \*II, 851.
- $C_{19}H_{18}O_4$  \*15)  $\alpha\gamma$ -Lakton d.  $\gamma$ -Oxy- $\gamma$ -Acetoxyl- $\alpha\delta$ -Diphenylvaleriansäure. Sm. 105—106° (*A.* 319, 222 *C.* 1902 [1] 109).
- \*24) Desoxytrimethylbrasilon. Sm. 173° (*Soc.* 81, 1046 *C.* 1902 [2] 749).
- 25) Äthylester d.  $\alpha\gamma$ -Diketo- $\alpha\delta$ -Diphenylbutan- $\beta$ -Carbonsäure. Cu (*B.* 35, 936 *C.* 1902 [1] 808).
- $C_{19}H_{18}O_5$  12) 2'-Methyläther d. 5-Oxy-7-Keto-6,8,8-Trimethyl-2-[4-Oxyphenyl]-7,8-Dihydro-1,4-Benzpyron. Sm. 185° (*G.* 31 [1] 77).
- 13) 7,2'-Diäthyläther d. 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 108—110° (*B.* 34, 1456).
- 14) 5,7-Dimethyläther-2'-Äthyläther d. 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 164—165° (*B.* 34, 1457).
- 15) 5,7-Dimethyläther-2'-Äthyläther d. 5,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 151—152° (*B.* 34, 111).
- $C_{19}H_{18}O_6$  \*11)  $\alpha$ -Trimethyläther d. Brasilon. Sm. 184—186° u. Zers. (*Soc.* 81, 1040 *C.* 1902 [2] 748).
- 14)  $\beta$ -Trimethyläther d. Brasilon. Sm. 150—160° (165°) (*M.* 23, 173 *C.* 1902 [1] 1106; *B.* 35, 1670 *C.* 1902 [1] 1354).
- 15) Tetramethyläther d. 7-Oxy-2-[3,4,5-Trioxyphenyl]-1,4-Benzpyron. Sm. 191—192° (*B.* 35, 2545 *C.* 1902 [2] 596).
- 16) Acetat d. Decarbousnol. Sm. 135° (*A.* 324, 186 *C.* 1902 [2] 1512).
- $C_{19}H_{18}O_7$  5) Methyl ester d. Umsnlsäure. Sm. 202° (*A.* 324, 179 *C.* 1902 [2] 1512).
- $C_{19}H_{18}O_8$  \*2) Lakton d. Dihydrobrasilinsäure. Sm. 227°. Ag (*Soc.* 81, 1038 *C.* 1902 [2] 748).
- $C_{19}H_{18}O_9$  \*2) Brasilinsäure. Sm. 208—210°. K, Ag (*Soc.* 79, 1410 *C.* 1902 [1] 203; *Soc.* 81, 1031 *C.* 1902 [2] 747).
- 3) Leprrarin (siehe auch C<sub>21</sub>H<sub>20</sub>O<sub>10</sub>). + CHCl<sub>3</sub> (*C.* 1901 [1] 640).
- $C_{19}H_{18}O_{11}$  \*1) 1-Euxanthinsäure. Sm. 162°. K + H<sub>2</sub>O, Ba + 9H<sub>2</sub>O (*A.* 318, 345; *C.* 1902 [2] 844).
- $C_{19}H_{18}N_2$  8)  $\alpha\alpha$ -Di[Phenylamido]- $\alpha$ -Phenylmethan. + SO<sub>2</sub> (*A.* 316, 137).
- 9) 3-Dimethylamidodihydro-1,2-Naphtakridin. Sm. 202—207° (*B.* 34, 4318 *C.* 1902 [1] 323).
- $C_{19}H_{20}O_8$  7)  $\beta$ -Oxy- $\beta$ -Phenylakryl-3-Methyl-6-Isopropylphenyläthersäure. Sm. 138° u. Zers. Ag (*Soc.* 79, 918).

- $C_{19}H_{20}O_3$  8) Aethylester d.  $\beta$ -Oxy- $\beta$ -Phenylakryl-2,4-Dimethylphenyläthersäure. Sd. 225—226°<sub>10</sub> (Soc. 79, 1187).
- $C_{19}H_{20}O_4$  20) Diäthyläther d. 2,4-Dioxydibenzoylmethan. Sm. 120—121° (B. 34, 3726 C. 1902 [1] 46).
- $C_{19}H_{20}O_5$  \*2) Trimethyläther d. Brasilin. Sm. 139—140° (B. 35, 1669 C. 1902 [1] 1353; Soc. 79, 1403 C. 1902 [1] 203).
- 10) Diacetat d. Isobutyl-1,8-Dioxy-2-Naphtylketon. Sm. 110—111° (C. 1901 [2] 1287).
- $C_{19}H_{20}O_6$  \*8) Tetramethyläther d. 2,4,6,4'-Tetraoxydibenzoylmethan. Sm. 107° (B. 34, 1450 Anm.).
- $C_{19}H_{20}O_7$  \*3) Barbatinsäure (A. 324, 59 C. 1902 [2] 904).
- $C_{19}H_{20}O_9$  \*1) Squamatsäure (J. pr. [2] 63, 536; A. 324, 73 C. 1902 [2] 905).
- $C_{19}H_{20}O_{10}$  2) Brasilinsäurehydrat. Sm. 130° (Soc. 81, 1037 C. 1902 [2] 748).
- $C_{19}H_{20}N_2$  5) Base (aus Cinchotinsulfonsäure). Fl. 2 Pikrat (M. 22, 810).
- $C_{19}H_{20}N_4$  2) Osazon (aus 3-Keto-1,2-Dioxy-1-Methylhexahydrobenzol). Sm. 128° (B. 35, 1177 C. 1902 [1] 989).
- $C_{19}H_{21}N$  2) 1,3,4,6,7,9-Hexamethylakridin. Sm. 221—222°. (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>CrO<sub>7</sub>, Pikrat, + HgCl<sub>2</sub> (Soc. 81, 285 C. 1902 [1] 528, 811).
- $C_{19}H_{22}O_2$  6) Acetat d. 2-Oxy- $\beta$ -Benzyl-4-Isopropyl-1-Methylbenzol. Sd. 230°<sub>50</sub> (G. 31 [1] 471).
- $C_{19}H_{22}O_3$  4) Acetat d. d-1-Oxy-2-Benzoylcamphen. Sm. 107° (Soc. 79, 1002).
- $C_{19}H_{22}O_5$  4) Di[2-Propoxyphenylester] d. Kohlensäure. Sm. 60° (D.R.P. 72806). — \*II, 551.
- 5) Di[2-Isopropoxyphenylester] d. Kohlensäure. Sm. 49° (D.R.P. 72806). — \*II, 551.
- $C_{19}H_{22}O_6$  5) Tetramethyläther d. Katechin. Sm. 142—143° (B. 35, 1868 C. 1902 [2] 51; B. 35, 2410 C. 1902 [2] 448).
- $C_{19}H_{22}N_4$  C 74,5 — H 7,2 — N 18,3 — M. G. 306.
- $C_{19}H_{23}N$  1) 2,3-Di[Phenylhydrazon]-1-Methylhexahydrobenzol. Sm. 152° (B. 35, 1178 C. 1902 [1] 990).
- 2) 5-[2,4,6-Trimethylbenzyliden]amido-1,2,4-Trimethylbenzol. Sm. 82° (B. 34, 831).
- $C_{19}H_{24}O_2$  4) Dipropyläther d.  $\alpha\alpha$ -Dioxydiphenylmethan. Sm. 33—34,5°; Sd. 204°<sub>40</sub> (Soc. 79, 1206).
- $C_{19}H_{24}O_6$  \*3) Diäthylester d. Benzylidenbisacetessigsäure. Sm. 152° (B. 35, 392, 399 C. 1902 [1] 570).
- $C_{19}H_{24}N_2$  2) Di[2,4,5-Trimethylphenyl]formamidin. Sm. 160°. HCl (B. 35, 2501 C. 1902 [2] 437).
- $C_{19}H_{24}N_4$  \*1)  $\gamma\delta$ -Di[Phenylhydrazon]heptan. Sm. 108° (G. 32 [1] 422 C. 1902 [2] 262).
- $C_{19}H_{25}N_3$  4) Aethylauramin. Sm. 130—131° (D.R.P. 136616 C. 1902 [2] 1376).
- $C_{19}H_{26}O_2$  2) 1-Menthylester d.  $\beta$ -Phenylakrylsäure. Fl. (Soc. 79, 1308 C. 1902 [1] 195; C. 1902 [2] 1238).
- $C_{19}H_{26}O_3$  4) Menthylester d.  $\beta$ -Oxy- $\alpha$ -Phenylakrylsäure. Na, Cu (C. 1902 [2] 208, 358).
- 5) Menthylester d. Formylphenylessigsäure. Sm. 82—83° (82—84°) (C. 1902 [2] 208, 358).
- $C_{19}H_{26}O_6$  \*1) Diacetylisophotosantonsäure. Sm. 163—166° (G. 32 [1] 312 C. 1902 [1] 1404).
- $C_{19}H_{26}N_2$  9)  $\alpha\alpha$ -Di[Phenylamido]heptan. + SO<sub>2</sub> (A. 316, 135).
- 10) Di[4-Diäthylamidophenyl]methan. Pikrat (C. r. 135, 347 C. 1902 [2] 799).
- $C_{19}H_{25}O_2$  \*3) 1-Menthylester d.  $\beta$ -Phenylpropionsäure (C. 1902 [2] 1238).
- 7) Amylester d. Eudesmiasäure. Sd. 245—290° (C. 1901 [1] 1007).
- $C_{19}H_{25}O_4$  \*1) Strophantidin. Sm. 180° (C. 1902 [2] 1514).
- $C_{19}H_{25}O_{12}$  C 50,9 — H 6,3 — O 42,8 — M. G. 448.
- 1) Tetramethylester d. Heptan- $\alpha\gamma\gamma\epsilon\epsilon\epsilon\gamma$ -Hexacarbonsäure. Sm. 87° (J. pr. [2] 66, 125 C. 1902 [2] 734).
- C 43,2 — H 5,3 — O 51,5 — M. G. 528.
- $C_{19}H_{25}O_{17}$  1) Xylanbassorinsäure. BaO (Soc. 79, 1182).
- $C_{19}H_{30}O$  3) Picoresen. Sm. 90—95° (Ar. 240, 283 C. 1902 [2] 135).
- $C_{19}H_{30}O_4$  C 70,8 — H 9,3 — O 19,9 — M. G. 322.

- $C_{19}H_{30}O_4$  1) Ursocholeinsäure (oder  $C_{15}H_{25}O_4$ ). Sm. 100—101°. Ba +  $\frac{1}{2}H_2O$  (H. 36, 547 C. 1902 [2] 1420).
- $C_{19}H_{30}O_{10}$  4) Glykosid (aus den Samen von *Dregea rubicunda*) oder  $C_{23}H_{38}O_{12}$ . Sm. 85° (107° wasserfrei) (C. 1902 [2] 1514).
- 5) Pentaäthylester d. Butan- $\alpha\gamma\delta$ -Pentacarbonsäure. Sd. 220—240°<sub>12</sub> (J. pr. [2] 66, 14 C. 1902 [2] 508).
- $C_{19}H_{36}O_2$  4) Cerebrinsäure. Sm. 78—80° (C. 1902 [2] 400).
- $C_{19}H_{36}O_4$  4) 1-Menthylester d. Oktan- $\alpha$ -Carbonsäure (C. 1902 [2] 1238).
- $C_{19}H_{38}O_2$  4) Äthylester d. Margarinsäure. Sm. 24—25° (C. 1902 [2] 1421).
- $C_{19}H_{38}N_4$  C 70,8 — H 11,8 — N 17,4 — M. G. 322.
- 1) Amidoguanidinverbindung d. Keton  $C_{18}H_{34}O$ . Pikrat (C. 1902 [2] 1407).

## — 19 III —

- $C_{19}H_2O_4Br$  1) 3-Brom-2-[1, 3-Diketo-2, 3-Dihydro-2-Indenyl]-1, 4-Naphtochinon. Sm. 278° (B. 34, 1553).
- $C_{19}H_{11}O_4J_3$  1) Trijodaurin (D. R. P. 85929). — \*II, 700.
- $C_{19}H_{11}O_7N$  C 62,5 — H 3,0 — O 30,7 — N 3,8 — M. G. 365.
- 1) Dioxyfluorescein (aus Chinolinsäure) (B. 35, 1786 C. 1902 [2] 53).
- $C_{19}H_{12}O_9N_2$  6) Benzylidenbenzo- $\beta$ -Ketopentamethylenazinmethylsäure. Sm. 198° (Bl. [3] 25, 720).
- $C_{19}H_{12}O_4N_2$  3)  $\beta$ -Nitro-2, 6-Dimethylchinolinphtalon. Sm. 132° (B. 34, 2309).
- $C_{19}H_{12}O_6Br_2$  1) Dibromoroxylin. Sm. 173° (Soc. 79, 955).
- $C_{19}H_{13}O_2N$  \*3) 2, 6-Dimethylchinolinphtalon. Sm. 231—232° (203°). HBr (B. 34, 2306).
- $C_{19}H_{13}O_6N_5$  C 56,0 — H 3,2 — O 23,6 — N 17,2 — M. G. 407.
- 1) 1-[2, 4-Dinitrophenyl]amido-4-[4-Nitrobenzyliden]amidobenzol (D. R. P. 135335 C. 1902 [2] 1167).
- $C_{19}H_{14}ON_2$  5)  $\alpha$ -2, 6-Dimethylchinolinphtalin. Sm. 270—271° (B. 34, 2309).
- 9)  $\beta$ -2, 6-Dimethylchinolinphtalin. Sm. 209° (B. 34, 2310).
- $C_{19}H_{14}OBr_2$  1)  $\beta$ -Dibrom-4-Oxytriphenylmethan. Sm. 131° (B. 35, 3139 C. 1902 [2] 1210).
- $C_{19}H_{14}O_2N_2$  9)  $\alpha$ -[2-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 62°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub> + 2H<sub>2</sub>O). HBr (B. 35, 415 C. 1902 [1] 668).
- 10)  $\alpha$ -[3-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 139°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr (B. 35, 417 C. 1902 [1] 669).
- 11)  $\alpha$ -[4-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 142°. HCl (B. 35, 2783 C. 1902 [2] 993).
- $C_{19}H_{14}O_3Br_2$  1)  $\beta$ -Dibrom- $\alpha$ , 4-Dioxytriphenylmethan. Sm. 225° (B. 34, 3078).
- $C_{19}H_{14}O_3N_2$  6) Benzoylderivat d. 3, 5-Diamido-1, 2-Dioxybenzol-1, 2-Phenylen-äther. Sm. 274—275° (Am. 26, 364).
- $C_{19}H_{14}O_3S$  \*1) 2-Benzoyldiphenylsulfon. Sm. 183—184° (Am. 25, 107).
- $C_{19}H_{14}O_4N_4$  4) 4-[2, 4-Dinitrobenzyliden]amido-4-Amidobiphenyl. Sm. 186° (B. 35, 2709 C. 1902 [2] 637).
- $C_{19}H_{14}O_5Br_4$  1) Tetrabrombrasilinsäure. Sm. 170°. K<sub>2</sub> (Soc. 81, 1036 C. 1902 [2] 748).
- $C_{19}H_{15}ON_3$  5) 4-Benzoylamidoazobenzol. Sm. 205° (211°) (B. 35, 1432 C. 1902 [1] 1161; Soc. 81, 983 C. 1902 [2] 360).
- $C_{19}H_{15}O_2N_3$  19)  $\alpha$ -Phenylimido- $\alpha$ -Phenylamido- $\alpha$ -[4-Nitrophenyl]methan. HCl (B. 34, 123).
- $C_{19}H_{15}O_3N$  9) 2-Naphtylester d. 2-Acetylamidobenzol-1-Carbonsäure. Sm. 173° (B. 35, 3419 C. 1902 [2] 1314).
- $C_{19}H_{15}O_3As$  1) Triphenylarsinoxid-4-Carbonsäure. Sm. 253—254°. Ba, Ag (A. 321, 190 C. 1902 [2] 46).
- $C_{19}H_{15}O_5N_3$  C 62,5 — H 4,1 — O 21,9 — N 11,5 — M. G. 365.
- 1)  $\alpha$ -[4-Nitrophenyl]hydrazon-2, 3, 4-Trioxydiphenylmethan. Sm. 164 bis 165° (B. 34, 3922 C. 1902 [1] 123).
- $C_{19}H_{15}O_6Br$  1) Diäthylester d. 5-Brom-3, 6-Diketopentanthren-2, 4-Dicarbonsäure. Sm. 157° (B. 34, 1550).
- $C_{19}H_{15}O_7N$  2) Diacetat d.  $\gamma$ -Keto- $\gamma$ -[3-Nitrophenyl]- $\alpha$ -[3, 4-Dioxyphenyl]propen. Sm. 179° (B. 34, 3531).
- $C_{19}H_{15}N_3S_2$  1) Methyläther d. 3-Merkapto-5-Thiocarbonyl-4-Phenyl-1-[1-Naphtyl]-4, 5-Dihydro-1, 2, 4-Triazol. Sm. 197—198° (B. 34, 319).

- $C_{19}H_{15}BrJ_5$  1)  $\alpha$ -Bromtriphenylmethanpentajodid. Sm. 92° (B. 35, 1832 C. 1902 [2] 212).
- $C_{19}H_{16}ON_2$  \*4) Triphenylharnstoff (C. 1902 [1] 20).
- 17) Monobenzoyl-4,4'-Diamidobiphenyl (D.R.P. 60332).
- 18) Monobenzoyl-2-Amidodiphenylamin. Sm. 112° (B. 35, 1970 C. 1902 [2] 111).
- $C_{19}H_{16}O_2N_2$  \*1) *p*-Nitro-3-Methyltriphenylamin. Sm. 164—165° (B. 34, 40).
- 21)  $\beta$ -Benzoyl- $\alpha$ -Benzoyl- $\alpha$ -(1-Naphtyl)hydrazin. Sm. 184° (Am. 25, 488).
- $C_{19}H_{16}O_3N_4$  8) 4,6-Dioxy-1-Phenylhydrazonmethylazobenzol. Sm. 217° u. Zers. (B. 34, 2099).
- 9) 2-Methyläther d. 2,4-Dioxy-1,3-Di[Phenylazo]benzol. Sm. 189 bis 190° (Am. 26, 165).
- 10) Di[5-Keto-3-Phenyl-4,5-Dihydro-4-Pyrazolyl]methan. Sm. 280° u. Zers. (A. 323, 107 C. 1902 [2] 785).
- 11)  $\beta$ -Phenylhydrazon- $\beta$ -(4-Nitrophenyl)- $\alpha$ -[2-Pyridyl]äthan. Pikrat (B. 35, 1166 C. 1902 [1] 1015).
- $C_{19}H_{16}O_3N_2$  6) *N*-Acetyl-2-Nitrobenzyl-1-Naphtylamin. Sm. 130° (Bl. [3] 27, 1058 C. 1902 [2] 1509).
- 7) *N*-Acetyl-3-Nitrobenzyl-1-Naphtylamin. Sm. 109—110° (Bl. [3] 27, 1060 C. 1902 [2] 1510).
- 8) *N*-Acetyl-4-Nitrobenzyl-1-Naphtylamin. Sm. 112—113° (Bl. [3] 27, 1061 C. 1902 [2] 1510).
- 9) *N*-Acetyl-2-Nitrobenzyl-2-Naphtylamin. Sm. 117—118° (Bl. [3] 27, 1059 C. 1902 [2] 1510).
- 10) *N*-Acetyl-3-Nitrobenzyl-2-Naphtylamin. Sm. 104—105° (Bl. [3] 27, 1061 C. 1902 [2] 1510).
- 11)  $\alpha$ -Oxy- $\alpha$ -[2-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthan +  $H_2O$ . Sm. 95°. (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub> + H<sub>2</sub>O) (B. 35, 419 C. 1902 [1] 669).
- 12)  $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthan. Sm. 112°. HCl + H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub>) (B. 35, 2782 C. 1902 [2] 993).
- 13) 2-Acetylphenylamid d. 2-Keto-4-Methyl-1,2-Dihydrochinolin-3-Carbonsäure. Sm. 275° (Ar. 240, 143 C. 1902 [1] 818).
- 14) *p*-Nitro-4-Methylphenyl-1-Naphtylamid d. Essigsäure. Sm. 240° (J. pr. [2] 64, 506 C. 1902 [1] 257).
- $C_{19}H_{16}O_3N_4$  C 65,5 — H 4,6 — O 13,8 — N 16,1 — M. G. 348.
- 1) Monomethyläther d. 2,4-Di[Phenylazo]-1,3,5-Trioxybenzol. Sm. 250—252° (Soc. 81, 470 C. 1902 [1] 1014).
- $C_{19}H_{16}O_5S$  1) Triphenylmethan- $\alpha$ -Sulfonsäure. Na + 2H<sub>2</sub>O (B. 35, 3016 C. 1902 [2] 1112).
- $C_{19}H_{16}O_4N_2$  4) 8-Nitro-1-[1-Piperidyl]-9,10-Anthrachinon. Sm. 154° (D.R.P. 136777 C. 1902 [2] 1373).
- 5) Methylester d. Dianhydrodiacetylthranilsäure. Sm. 250—251° u. Zers. (B. 35, 3467 C. 1902 [2] 1315).
- $C_{19}H_{16}O_4N_4$  3)  $\alpha$ -Di[4-Nitrophenylamido]- $\alpha$ -Phenylmethan. Sm. 85° (B. 34, 833).
- $C_{19}H_{16}O_7N_4$  C 55,3 — H 3,8 — O 27,2 — N 13,6 — M. G. 412.
- 1) Acetylderivat d. Verb.  $C_{17}H_{14}O_8N_4$  (aus 2-Amidonaphtalin u. 2,4,6-Trinitro-1-Methylbenzol). Sm. 106° (Soc. 79, 531).
- C 53,3 — H 3,7 — O 29,9 — N 13,0 — M. G. 428.
- $C_{19}H_{16}O_5N_4$  1) 1-Amidonaphtalin + 2,4,6-Trinitrobenzol-1-Carbonsäureäthylester. Sm. 135° (Soc. 79, 531).
- 2) 2-Amidonaphtalin + 2,4,6-Trinitrobenzol-1-Carbonsäureäthylester. Sm. 127° (Soc. 79, 531).
- $C_{19}H_{16}O_6Br_2$  1) Dibrombrasilinsäure. Sm. 182° (Soc. 81, 1036 C. 1902 [2] 748).
- $C_{19}H_{16}O_{12}N_2$  21) Lakton d. Dinitrodihydrobrasilinsäure (Soc. 81, 1039 C. 1902 [2] 748).
- $C_{19}H_{16}N_6S$  1) Thioharnstoff (aus 5-[*p*-Amidophenyl]pyrazol). Sm. 200—202° u. Zers. (B. 35, 41 C. 1902 [1] 425).
- $C_{19}H_{17}ON$  8)  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -Diphenylmethan. HCl (B. 35, 992 C. 1902 [1] 870).
- 9) 1-[ $\alpha$ -Acetylamidobenzyl]naphtalin. Sm. 210° (C. 1902 [2] 789).
- 10) 3-Acetyl-2-Methyl-4,5-Diphenylpyrrol (B. 35, 3006 C. 1902 [2] 1121).
- 11) 4-Methylphenyl-1-Naphtylamid d. Essigsäure. Sm. 124° (J. pr. [2] 64, 497 C. 1902 [1] 256).

- $C_{19}H_{17}O_2N$  13) 1-[1-Piperidyl]-9,10-Anthrachinon. Sm. 115° (D.R.P. 136777 C. 1902 [2] 1373).  
 14) 1-Naphtylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 131°; Sd. 260°<sub>30</sub> (B. 34, 1850).  
 15) 2-Naphtylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 117° (B. 34, 1852).
- $C_{19}H_{17}O_2N_3$  12)  $\alpha$ , $\alpha$ -Di[Phenylamido]- $\alpha$ -[3-Nitrophenyl]methan. + SO<sub>2</sub> (A. 316, 140).  
 13) Methylester d. 2,6-Di[Phenylamido]pyridin-4-Carbonsäure. Sm. 142° (B. 35, 2934 C. 1902 [2] 1055).
- $C_{19}H_{17}O_3N$  11) 5-[1-Piperidyl]-1-Oxy-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1374).
- $C_{19}H_{17}O_3N_3$  3) Verbindung (aus 5-Nitrofuran-2-Carbonsäure) (Am. 27, 204 C. 1902 [1] 909).
- $C_{19}H_{17}O_3N_3$  5) Dimethylamidotolamidonaphtazoxoniumanhydrid (C. 1902 [2] 459).  
 $C_{19}H_{17}O_3N_5$  C 57,7 — H 4,3 — O 20,2 — N 17,7 — M. G. 395.  
 1) Aethylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\alpha$ -[5-Keto-1-Phenyl-4,5-Dihydropyrazolyl-3-]essigsäure. Sm. 224° u. Zers. (B. 34, 86).  
 2) Aethylester d. 5-Keto-4-[4-Nitrophenyl]azo-1-Phenyl-4,5-Dihydropyrazol-3-Methylcarbonsäure. Sm. 189° (B. 34, 84).
- $C_{19}H_{17}O_5Cl$  1) 3,6-Diacetat d. 5-Chlor-1,3,6-Trioxypentanthren-1-Aethyläther. Sm. 152—153,5° (B. 34, 1555).
- $C_{19}H_{17}J_2As$  1) Jodmethyltriphenylarsoniumjodid. Sm. 227° (A. 321, 171 C. 1902 [2] 44).
- $C_{19}H_{17}SAs$  1) Diphenyl-4-Methylphenylarsinsulfid. Sm. 135° (A. 321, 189 C. 1902 [2] 46).
- $C_{19}H_{18}ON_3$  16) 4-Benzoylmethyl-3,5-Dimethyl-1-Phenylpyrazol. Sm. 87—88° (C. r. 133, 47; C. r. 134, 844 C. 1902 [1] 1164).
- $C_{19}H_{18}ON_4$  1) Harnstoff (aus 5-Phenylazo-2,4-Dimethylpyrrol u. Phenylisocyanat). Sm. 70—71° (C. 1901 [1] 1323).
- $C_{19}H_{18}O_3N_2$  7)  $\gamma$ -Keto- $\alpha$ , $\gamma$ -Di[3-Acetylamidophenyl]propen. Sm. 150° (B. 34, 3528).
- $C_{19}H_{18}O_4N_2$  2) Aethylester d.  $\alpha$ -[Acetylphenylhydrazon]benzoylessigsäure. Sm. 151° (B. 35, 925 C. 1902 [1] 807).  
 3) Di[2-Acetylphenylamid] d. Malonsäure. Sm. 159—160° (Ar. 240, 144 C. 1902 [1] 819).
- $C_{19}H_{18}O_5Br_2$  1)  $\alpha$ -Acetat-4-Benzooat d. 5-Brom-3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]-benzol-3-Methyläther. Sm. 112—114,5° (B. 35, 119 C. 1902 [1] 474).
- $C_{19}H_{18}O_6N_2$  4) Triacetylderivat d. Base  $C_{13}H_{12}O_6N_2$  (B. 35, 1483 C. 1902 [1] 1209).  
 5) 4,4'-Di[Acetylamido]diphenylmethan-3,3'-Dicarbonsäure. Sm. 259 bis 261° u. Zers. (A. 324, 131 C. 1902 [2] 1253).  
 6) Di[Acetylphenylamido]methan-2,2'-Dicarbonsäure. Na (A. 324, 125 C. 1902 [2] 1253).  
 C 54,5 — H 4,3 — O 34,4 — N 6,7 — M. G. 418.
- $C_{19}H_{18}O_9N_2$  1) Diäthylester d. 4,6-Dinitro-3-Oxyphenylmalonphenyläthersäure. Na (Am. 26, 8).
- $C_{19}H_{18}NBr_3$  1) 2,5,8-Tribrom-1,3,4,6,7,9-Hexamethylakridin (Soc. 81, 287 C. 1902 [1] 528).
- $C_{19}H_{18}NP$  1) Phenylamidophenyl-4-Methylphenylphosphin. Sm. 124° (A. 315, 61).
- $C_{19}H_{18}N_2S$  3)  $\alpha$ -Methyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 175—176° (C. 1902 [2] 789).
- $C_{19}H_{18}ClAs$  1) Methyltriphenylarsoniumchlorid. Sm. 121°. 2 + PtCl<sub>4</sub> (A. 321, 168 C. 1902 [2] 44).
- $C_{19}H_{18}JAs$  1) Methyltriphenylarsoniumjodid. Sm. 176° (A. 321, 166 C. 1902 [2] 44).
- $C_{19}H_{19}ON_3$  \* 1) p-Rosanilin. Bichromat (B. 34, 3816 C. 1902 [1] 45).
- $C_{19}H_{19}OAs$  1) Methyltriphenylarsoniumhydroxyd. Sm. 125—126°. Salze siehe (A. 321, 167 C. 1902 [2] 44).
- $C_{19}H_{19}O_2N_8$  4) 2,8-Di[Acetylamido]-3,7-Dimethylakridin (B. 34, 4310 C. 1902 [1] 322).
- $C_{19}H_{19}O_2As$  1) Diphenyl-4-Methylphenyloxyarsoniumhydroxyd. Sm. 68°. Nitrat (A. 321, 188 C. 1902 [2] 45).
- $C_{19}H_{19}O_3N$  4) Phenyläther d.  $\epsilon$ -[1,2-Phtalyl]amido- $\alpha$ -Oxypentan. Sm. 72—73° (B. 35, 1368 C. 1902 [1] 1091).
- $C_{19}H_{19}O_4N$  \* 1) Bulbocapnin (Ar. 240, 19 C. 1902 [1] 529; Ar. 240, 93 C. 1902 [1] 820).  
 7) Benzoylanhalonidin. Sm. 189° (B. 34, 3014).



- $C_{19}H_{19}O_4N$  8) 2-Methoxyl-4-Allylphenylester d. 4-Acetylamidobenzol-1-Carbonsäure. Sm. 160—161° (D. R. P. 67 923). — \*II, 789.
- $C_{19}H_{19}O_4N_3$  3) p-Dinitro-1,3,4,6,7,9-Hexamethylakridin. Sm. 85—87° (Soc. 81, 286 C. 1902 [1] 528).
- $C_{19}H_{19}O_5N$  3) Diäthyläther d.  $\gamma$ -Keto- $\gamma$ -[3-Nitrophenyl]- $\alpha$ -[3,4-Dioxyphenyl]-propen. Sm. 103° (B. 34, 3531).
- $C_{19}H_{19}O_6N_3$  4) Stylopin. Sm. 202°. HCl, (2HCl, PtCl<sub>4</sub>), HJ (B. 35, 16 C. 1902 [1] 430). C 59,2 — H 4,9 — O 24,9 — N 10,9 — M. G. 385.
- 1) Hexaoxyleukanilin. 3HCl + H<sub>2</sub>O, 3HJ + 2H<sub>2</sub>O (B. 34, 1035).
- 2) Aethylester d.  $\delta$ -Phenylazo- $\gamma$ -Keto- $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]butan- $\delta$ -Carbonsäure. Sm. 147—148° (B. 35, 1863 C. 1902 [2] 41).
- $C_{19}H_{19}O_6Br$  2) Diacetat d. Verbindung  $C_{15}H_{15}O_4Br$ . Sm. 132° (C. 1901 [1] 114).
- $C_{19}H_{19}O_7N$  2) 2,4,6,4'-Tetramethyläther d. 2,4,6,4'-Tetraoxydibenzoyloximido-methan. Sm. 189° u. Zers. (B. 34, 1450).
- 3) Methylester d. Usnolsäureoxim. Sm. 220° (A. 324, 180 C. 1902 [2] 1512).
- $C_{19}H_{19}O_8N$  C 56,3 — H 4,7 — O 35,6 — N 3,4 — M. G. 405.
- 1) Nitrooxydihydrotrimethylbrasilon. Sm. 230° u. Zers. (225°) (Soc. 81, 1048 C. 1902 [2] 749; B. 35, 1676 C. 1902 [1] 1355).
- $C_{19}H_{20}ON_2$  9) 4-Phenylamid d. 5-Phenylamido-2-Methyl-2,3-Dihydro-R-Penten-4-Carbonsäure. Sm. 133° (A. 317, 91).
- $C_{19}H_{20}O_2N_2$  8)  $\epsilon$ -[1,2-Phtalyl]amido- $\alpha$ -Amidopentan. Sm. 113—114° (B. 35, 1371 C. 1902 [1] 1091).
- 9) 2-[2-Methoxyl-4-Allylphenyl]äther d. 2-Oxymethyl-5-Methylbenzimidazol. Sm. 71—73°. Pikrat (J. pr. [2] 63, 192).
- 10) Aethylester d.  $\beta$ -[2-Fluorenyl]buttersäure. Sm. 124° (B. 34, 1764).
- 11) 2-Methylphenylmonamid d.  $\alpha$ -[2-Methylphenyl]amido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 172° (B. 35, 2509 C. 1902 [2] 438).
- 12) 4-Methylphenylmonamid d.  $\alpha$ -[4-Methylphenyl]amido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 170° (B. 35, 2510 C. 1902 [2] 438).
- $C_{19}H_{20}O_3N_2$  7) Diallyläther d. s-Di[4-Oxyphenyl]harnstoff. Sm. 211° (B. 34, 1941).
- $C_{19}H_{20}O_3N_4$  2) 2,5-Diketo-4-[ $\gamma$ -Phenylureidopropyl]-1-Phenyltetrahydroimidazol. Sm. 191—192° (H. 34, 527 C. 1902 [1] 782).
- $C_{19}H_{20}O_4N_2$  \*1) Ornithursäure. Ca (B. 34, 463).
- $C_{19}H_{21}O_3N$  11) Methylester d. 2-[4-Diäthylamidobenzoyl]benzol-1-Carbonsäure. Sm. 101° (Bl. [3] 25, 173).
- 12) Aethylester d.  $\alpha$ -Phenacylamido- $\beta$ -Phenylpropionsäure. Fl. (A. 307, 157). — \*II, 836.
- 13) Acetat d. 5-Oxy-4-Acetylphenylamidomethyl-1,2-Dimethylbenzol. Sm. 85° (B. 35, 138 C. 1902 [1] 467).
- 14) Benzoat d.  $\beta$ -Benzoylamido- $\gamma$ -Oxypentan. Sm. 122° (C. 1902 [1] 716).
- $C_{19}H_{21}O_4Br$  1) 4-Benzoat d. 3,4-Dioxy-1-[ $\beta$ -Brom- $\alpha$ -Oxypropyl]benzol-3-Methyläther- $\alpha$ -Aethyläther. Sm. 72—73° (B. 35, 123 C. 1902 [1] 474).
- $C_{19}H_{21}O_5N$  \*5) Aethylester d. 3-Methoxyl-1-[4-Aethoxyphenyl]imidomethylbenzol-4-Kohlensäure (Eupyrin). Sm. 87—88° (C. 1901 [1] 641).
- 6) Morphoxyllessigsäure (C. 1901 [1] 148).
- 7) Acetat d. 3-Nitrobenzoylcampher. Sm. 127—128° (Soc. 81, 411 C. 1902 [1] 873).
- 8) Phenylamidoformiat d. Filicinsäurebutanon. Sm. 115° (A. 318, 240).
- $C_{19}H_{21}O_5Br$  1) 4-Benzoat d. 5-Brom-3,4-Dioxy-1-[ $\alpha\beta$ -Dioxypropyl]benzol- $\alpha,\beta,3$ -Trimethyläther. Sm. 92—93° (B. 35, 120 C. 1902 [1] 474).
- $C_{19}H_{21}O_6Br$  1) Tetramethyläther d. Bromkatechin. Zers. bei 170° (B. 35, 2410 C. 1902 [2] 448).
- $C_{19}H_{21}N_3Cl$  3) Allocinchoninchlorid (M. 23, 448 C. 1902 [2] 376).
- $C_{19}H_{21}N_3J$  1) Jodäthylat d. 1-Aethyl-2,4-Diphenylimidazol. Sm. 154° (B. 34, 1832).
- $C_{19}H_{22}ON_2$  \*3) Cinchonin. Sm. 264,3°. (2HCl, TiCl<sub>3</sub> + 4H<sub>2</sub>O) (M. 22, 171, 283; C. 1902 [1] 939; Bl. [3] 25, 697, 880; B. 35, 2772 C. 1902 [2] 980).
- \*6)  $\delta$ -Cinchonin (M. 22, 160).
- \*8)  $\alpha$ -Isocinchonin. Sm. 126—126,5°. 2HCl + 4H<sub>2</sub>O (M. 22, 184, 199, 285; M. 22, 1083 C. 1902 [1] 479; M. 22, 1097 C. 1902 [1] 480 M. 23, 466 C. 1902 [2] 377).
- \*9)  $\beta$ -Isocinchonin. Sm. 126—127°. HCl + H<sub>2</sub>O (M. 22, 186, 204, 978; M. 22, 1097 C. 1902 [1] 480; M. 23, 465 C. 1902 [2] 377).

- $C_{19}H_{22}ON_2$  \*10) Allocinchonin.  $HJ + H_2O$ ,  $4HJ$ ,  $H_2SO_4 + 3H_2O$  (*M.* 22, 191, 284; *M.* 23, 443 *C.* 1902 [2] 375; *M.* 23, 455 *C.* 1902 [2] 376).
- \*17) Tautocinchonin (*M.* 22, 151).
- 35) Base (aus Allocinchonin). Oxalat +  $H_2O$  (*M.* 22, 202).
- 36) Base (aus Hydrochlorcinchonin). Sm. 170,5—171° (*M.* 22, 169).
- $C_{19}H_{22}O_2N_2$  26) Dibenzoylisoamylhydrazin. Sm. 133° (*B.* 34, 3269).
- 27)  $\alpha$ -[4-Methylphenyl]imido- $\gamma$ -[4-Methylphenyl]amidovaleriansäure. Sm. 238° (*A. ch.* [7] 9, 475). — \*II, 283.
- 28) Di[Phenylamid] d. Pentan- $\alpha\delta$ -Dicarbonsäure. Sm. 168° (*Bl.* [3] 25, 443).
- $C_{19}H_{22}O_2S_2$  1)  $\gamma\gamma$ -Dimerkaptovaleriandibenzyläthersäure. Sm. 70° (*B.* 34, 2653).
- 2)  $\beta\beta$ -Dimerkaptovaleriandibenzyläthersäure. Sm. 131—133° (*B.* 34, 2661).
- 3) Aethylester d.  $\gamma\gamma$ -Dimerkaptovalerianphenyläthersäure. Fl. (*B.* 34, 2655).
- 4) Aethylester d.  $\beta\beta$ -Dimerkaptovaleriandibenzyläthersäure. Sm. 49° (*B.* 34, 2664).
- $C_{19}H_{22}O_3N_4$  C 64,5 — H 6,1 — O 13,6 — N 15,8 — M. G. 354.
- 1) Di[Methylphenylhydrazon] einer Pentose. Sm. 137° (*B.* 35, 2632 *C.* 1902 [2] 576).
- $C_{19}H_{22}O_4N_2$  9) Aethyläther d. 2-Nitro-6-Benzoylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 138° (*B.* 35, 2795 *C.* 1902 [2] 989).
- 10) Diäthylester d. 4,4'-Diamidodiphenylmethan-3,3'-Dicarbonsäure. Sm. 109° (*A.* 324, 131 *C.* 1902 [2] 1253).
- $C_{19}H_{22}O_5S_2$  1)  $\delta\delta$ -Dibenzylsulfon- $\beta$ -Ketopentan. Sm. 137—138° (*B.* 35, 501 *C.* 1902 [1] 637).
- 2)  $\beta\beta$ -Dibenzylsulfon- $\gamma$ -Ketopentan (*B.* 35, 499 *C.* 1902 [1] 637).
- $C_{19}H_{22}O_6S_2$  1)  $\gamma\gamma$ -Di[Benzylsulfon]valeriansäure. Sm. 143—145° u. Zers. (*B.* 34, 2651).
- 2) Aethylester d.  $\gamma\gamma$ -Di[Phenylsulfon]valeriansäure. Sm. 112—113° (*B.* 34, 2655).
- 3) Aethylester d.  $\beta\beta$ -Di[Phenylsulfon]- $\alpha$ -Methylbuttersäure. Sm. 130° (*B.* 34, 2665).
- $C_{19}H_{22}N_2S$  1) 4'-Phenylthioureido-1,2,3,4,5,6-Hexahydrobiphenyl. Sm. 157 bis 158° (*A.* 318, 324).
- $C_{19}H_{23}ON$  5) Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]propan. Sm. 141° (*B.* 35, 2256 *C.* 1902 [2] 274).
- $C_{19}H_{23}O_2N$  5) Aethyläther d. 2-Benzoylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 144° (*B.* 35, 2799 *C.* 1902 [2] 989).
- 6) Aethyläther d. 6-Benzoylamido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 151—152° (*B.* 35, 2800 *C.* 1902 [2] 989).
- 7) Methylester d. 4-Diäthylamidodiphenylmethan-2'-Carbonsäure. Fl. (*Bl.* [3] 25, 202).
- $C_{19}H_{23}O_3N$  \*2)  $\beta$ -Methylmorphimethin. Sm. 134—135° (*B.* 35, 3009 *C.* 1902 [2] 1133).
- 10)  $\gamma$ -Methylmorphimethin (Methylisomorphimethin). Sm. 167° (*Soc.* 79, 577; *B.* 35, 3010 *C.* 1902 [2] 1133).
- $C_{19}H_{23}O_3N_3$  11)  $\delta$ -Methylmorphimethin. Sm. 111—113° (*B.* 35, 3011 *C.* 1902 [2] 1133).
- C 66,9 — H 6,7 — O 14,1 — N 12,3 — M. G. 341.
- 1) Diäthyläther d. Acetyldi[4-Oxyphenyl]guanidin. Sm. 165° (*D. R. P.* 66550). — \*II, 406.
- $C_{19}H_{23}O_4N$  9) Corytuberin +  $5H_2O$  (oder  $C_{19}H_{23}O_4N$ ). Sm. 240°.  $HCl$ , (2 $HCl$ ,  $PtCl_4 + 3H_2O$ ),  $HBr$ ,  $H_2SO_4 + 4H_2O$  (*Ar.* 240, 101 *C.* 1902 [1] 820).
- $C_{19}H_{23}O_5N$  4) Acetylatroscin. (2 $HCl$ ,  $PtCl_4 + 2H_2O$ ), ( $HCl$ ,  $AuCl_3$ ) (*J. pr.* [2] 64, 374).
- 5) Acetylhyoscine. ( $HCl$ ,  $AuCl_3$ ) (*J. pr.* [2] 64, 365).
- $C_{19}H_{23}O_7N$  2) Phenylamidoformiat d. trim.  $\beta\gamma$ -Diketobutan. Sm. 132°. (+  $C_6H_6$  Sm. 86°) (*B.* 35, 3295 *C.* 1902 [2] 1247).
- $C_{19}H_{23}O_8N$  \*2) Diäthylester d.  $\beta\gamma$ -Diketo- $\delta$ -[3-Nitrophenyl]heptan- $\gamma\epsilon$ -Dicarbonsäure. Sm. 146° (*A.* 323, 105 *C.* 1902 [2] 785).
- \*3) Diäthylester d.  $\beta\gamma$ -Diketo- $\delta$ -[4-Nitrophenyl]heptan- $\gamma\epsilon$ -Dicarbonsäure (*A.* 323, 105 *C.* 1902 [2] 785).
- $C_{19}H_{24}ON_2$  \*8) Cinchonamin. Sm. 184—185° (*C.* 1902 [1] 782).
- \*9) Cinchotin (Cinchonin) (*M.* 22, 807; *A.* 260, 220; *C. r.* 132, 410, 828; *M.* 22, 1103 *C.* 1902 [1] 480).

- $C_{19}H_{24}ON_2$  \*10) Dihydrocinchonin (*Bl.* [3] 25, 877).  
 17) Tetramethyldiamidoditolylmethanoxyd (D.R.P. 99613). — \*II, 605.  
 $C_{19}H_{24}O_2N_2$  11) Oxycinchotin. Sm. 268°.  $HCl + 2H_2O$ ,  $(2HCl, PtCl_4)$ ,  $H_2SO_4 + 8H_2O$  (*M.* 22, 976).  
 12) isom. Oxycinchotin. *Fl.* 2 Pikrat (*M.* 22, 811).  
 $C_{19}H_{24}O_2N_2$  3) Dipropyläther d. s-Di[4-Oxyphenyl]harnstoff. Sm. 201° (*B.* 34, 1939).  
 $C_{19}H_{24}O_3N_4$  2) Di[Methylphenylhydrazon] d. d-Arabinoketose. Sm. 172° u. Zers. (*B.* 35, 963 *C.* 1902 [1] 860).  
 3) Di[Methylphenylhydrazon] d. i-Riboketose. Sm. 175° (*B.* 35, 2629 *C.* 1902 [2] 575).  
 4) Di[Methylphenylhydrazon] d. i-Xyloketose. Sm. 173° (*B.* 35, 2628 *C.* 1902 [2] 575).  
 5) Verbindung (aus Formaldehyd u. Acetylphenylhydrazin) (*C.* 1902 [2] 340).  
 $C_{19}H_{24}O_4N_2$  3) Diäthylester d. 2,5-Dimethyl-1-[4-Amido-2-Methylphenyl]pyrrol-3,4-Dicarbonsäure. Sm. 105—106° (*B.* 35, 684 *C.* 1902 [1] 715).  
 $C_{19}H_{24}O_6N_2$  2) Diphenylhydrazon d.  $\alpha$ -Glykoheptose. Sm. 140° (*H.* 35, 570 *C.* 1902 [2] 634).  
 $C_{19}H_{24}N_4S_4$  1)  $\alpha\epsilon$ -Amylenester d.  $\beta$ -Phenylhydrazidodithioameisensäure. Sm. 140—141° (*J. pr.* [2] 65, 479 *C.* 1902 [2] 28).  
 $C_{19}H_{26}O_2N_3$  3)  $\alpha$ -Oxy-2-Acetylamido-4,4'-Di[Dimethylamido]diphenylmethan. Sm. 162° (D.R.P. 79250). — \*II, 659.  
 $C_{19}H_{26}O_2P$  1) 4-Methylphenyldiäthylphenylphosphorketobetaïn. *Fl.* Salze siehe (*A.* 315, 91).  
 $C_{19}H_{26}O_3P$  2) Diäthylester d.  $\beta\beta$ -Diphenylisopropylphosphinsäure. *Sd.* 240°<sub>30</sub> (*B.* 34, 1296).  
 $C_{19}H_{26}O_3N$  \*1) Corytuberin. Sm. oberh. 200° (*Ar.* 240, 19 *C.* 1902 [1] 529).  
 $C_{19}H_{26}ON_2$  4) Aethyläther d.  $\alpha$ -Oxydi[4-Dimethylamidophenyl]methan. *Fl.* (*C.* 1902 [1] 471).  
 5) Phenylhydrazon d. Acetonisocampher. Sm. 128—129° (*B.* 34, 3060).  
 $C_{19}H_{26}O_2N_2$  *C* 72,6 — *H* 8,3 — *O* 10,2 — *N* 8,9 — *M. G.* 314.  
 1) Di[Aethylamidooxytolyl]methan ( $CH_3 : OH : C_2H_5NH = 1 : 4 : 2$ ). Sm. 169° (D.R.P. 84988). — \*II, 605.  
 $C_{19}H_{26}O_2Br_2$  1) Menthylester d.  $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionsäure. Sm. 84° (*Soc.* 79, 1308 *C.* 1902 [1] 195).  
 $C_{19}H_{26}O_{12}N_2$  \*1) Maltose-2,3-Diamidobenzol-1-Carbonsäure. Sm. 235° (*B.* 34, 905).  
 $C_{19}H_{27}O_4N$  \*2) Methylester d. 4-Benzoxyl-1,2,2,6,6-Pentamethylhexahydro-pyridin-4-Carbonsäure ( $\alpha$ -Eucaïn). Sm. 103°.  $HCl$  (*C.* 1902 [1] 478).  
 $C_{19}H_{26}O_3N_2$  2) Di[Methyloxydhydrat] d. Di[4-Dimethylamidophenyl]keton. (2 Chlorid +  $PtCl_4$ , Bromid +  $H_2O$ , Jodid +  $3H_2O$ , Trichromat, Methylsulfat (*J. pr.* [2] 66, 393 *C.* 1902 [2] 1509).  
*C* 78,9 — *H* 10,7 — *O* 5,5 — *N* 4,8 — *M. G.* 289.  
 $C_{19}H_{31}ON$  1) 2-Methylphenylamid d. Laurinsäure. Sm. 81,5° (*Am.* 27, 307 *C.* 1902 [1] 1303).  
*C* 61,8 — *H* 8,4 — *O* 26,0 — *N* 3,8 — *M. G.* 369.  
 $C_{19}H_{31}O_6N$  1) Triäthylester d.  $\delta$ -Cyan- $\beta\zeta$ -Dimethylheptan- $\gamma\delta\epsilon$ -Tricarbonsäure. *Sd.* 208—212°<sub>16</sub> (*Soc.* 81, 33 *C.* 1902 [1] 409).  
 $C_{19}H_{32}O_4Si$  1) Methyläthylphenylmenthyläther d. Siliciumtetraoxydhydrat. *Fl.* (*Soc.* 79, 458).  
*C* 73,6 — *H* 12,2 — *O* 5,2 — *N* 9,0 — *M. G.* 310.  
 $C_{19}H_{33}ON_2$  1) Isopropylidenhydrazid d. Palmitinsäure. Sm. 71° (*J. pr.* [2] 64, 426 *C.* 1902 [1] 24).  
 $C_{19}H_{33}OS_2$  1) Diamyläther d.  $\beta\zeta$ -Dimerkapto- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. *Fl.* (*B.* 35, 815 *C.* 1902 [1] 757).  
 $C_{19}H_{33}O_5S_2$  1)  $\beta\zeta$ -Di[Amylsulfon]- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Sm. 127—128° (*B.* 35, 815 *C.* 1902 [1] 757).

- $C_{19}H_{12}O_2NBr$  1)  $\beta$ -Brom-2,6-Dimethylchinolinphtalon. Sm. 159—160° (*B.* 34, 2306).  
 $C_{19}H_{12}O_2NBr_3$  1)  $\beta$ -Brom-2,6-Dimethylchinolinphtalondibromid. Sm. 233—234° u. Zers. (*B.* 34, 2307).

- $C_{19}H_{13}ONJ_2$  1) Di[*p*-Jodphenyl]amid d. Benzolcarbonsäure. Sm. 156—157° (D.R.P. 81928). — \*II, 731.
- $C_{19}H_{13}O_2NBr_4$  1) *p*-Toluchinophthalontetrabromid (B. 35, 1662 C. 1902 [1] 1369).
- $C_{19}H_{13}O_4N_3S$  1) 4-Nitro-2-Sulfobenzoësäuredianil? Sm. 208° (Am. 25, 23). — \*II, 806.
- $C_{19}H_{13}O_7NS$  1) Diphenylester d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 119° (Am. 25, 12). — \*II, 805.
- $C_{19}H_{13}O_9NS$  1) Verbindung (aus Besorein u. d. *s*-Chlorid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure) (Am. 25, 17). — \*II, 805.
- $C_{19}H_{13}O_9N_5S$  1) 1-[2,4-Dinitrophenyl]amido-4-[4-Nitrobenzyliden]amidobenzol-4<sup>2</sup>-Sulfonsäure (D.R.P. 135335 C. 1902 [2] 1167).
- $C_{19}H_{14}ON_3Cl$  2) 4-Propionylchloramidoazobenzol. Sm. 144° (Soc. 81, 983 C. 1902 [2] 360).
- $C_{19}H_{14}O_2N_2Br_2$  1)  $\alpha\beta$ -Dibrom- $\alpha$ -[2-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthan. Sm. 145° (B. 35, 417 C. 1902 [1] 669).
- 2)  $\alpha\beta$ -Dibrom- $\alpha$ -[3-Nitrophenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthan. Sm. 189° (B. 35, 417 C. 1902 [1] 669).
- $C_{19}H_{14}O_4N_2S_2$  1) Di[4-Nitrophenyläther] d. Dimerkaptomethylbenzol. Sm. 152° (R. 20, 403 C. 1902 [1] 417).
- $C_{19}H_{14}O_7N_4S$  1) 4-Nitro-4'-[4-Nitrobenzyliden]amidodiphenylamin-2-Sulfonsäure (D.R.P. 135335 C. 1902 [2] 1167).
- $C_{19}H_{14}O_8N_2Br_2$  1) Di-4-Nitrobenzoat d. *cis*-3,5-Dibrom-1,2-Dioxy-R-Pentamethylen. Sm. 147—148° (A. 314, 309).
- 2) Di-4-Nitrobenzoat d. *trans*-3,5-Dibrom-1,2-Dioxy-R-Pentamethylen. Sm. 158—159° (A. 314, 305).
- $C_{19}H_{15}O_2SAs$  1) Triphenylarsinsulfid-4-Carbonsäure. Sm. 178° (A. 321, 192 C. 1902 [2] 46).
- $C_{19}H_{15}O_3NS$  5) Phenylamid d. Diphenylsulfon-2-Carbonsäure. Sm. 234—235° (Am. 25, 106). — \*II, 901.
- $C_{19}H_{15}O_5N_3S$  1) Di[Phenylamid] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 222° (Am. 25, 21). — \*II, 807.
- 2) Verbindung (aus d. Diphenylamid d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure). Sm. noch nicht bei 340° (Am. 25, 25). — \*II, 807.
- $C_{19}H_{15}O_6N_2S_2$  1)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -[2-Nitrophenyl]methan. Sm. 158—160° (B. 35, 2347 C. 1902 [2] 516).
- 2)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -[3-Nitrophenyl]methan. Sm. 176° (B. 35, 2348 C. 1902 [2] 516).
- 3)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -[4-Nitrophenyl]methan. Sm. 210—212° (B. 35, 2349 C. 1902 [2] 517).
- $C_{19}H_{16}O_6N_3S$  1) Di[4-Nitrophenyl]amid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 167—168° (B. 35, 1442 C. 1902 [1] 1200).
- $C_{19}H_{16}ON_2S$  3) Methyläther d. Benzoylimido-1-Naphtylamidomerkaptomethan (Benzoyl- $\alpha$ -Naphtylthiomethylpseudothioharnstoff). Sm. 124° (Am. 26, 412).
- $C_{19}H_{16}O_7N_3As$  1) Methyltri[*p*-Nitrophenyl]arsoniumhydroxyd. Nitrat (A. 321, 169 C. 1902 [2] 44).
- $C_{19}H_{17}O_2NS$  2) Diphenylamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 141° (B. 35, 1441 C. 1902 [1] 1200).
- $C_{19}H_{17}O_2N_2Br$  1) *p*-Brom-*p*-(1-Piperidyl)-1-Amidoanthrachinon (D.R.P. 136777 C. 1902 [2] 1375).
- $C_{19}H_{17}O_3NCl_4$  \*) 1,3,4,5,6-Tetrachlor-1-[4-Diäthylamidobenzoyl]-benzol-2-Carbonsäure. Sm. 160° (Bl. [3] 25, 602).
- $C_{19}H_{17}O_3N_2P$  1) 4-[ $\alpha$ -Phenylhydrazonbenzyl]phenylphosphinsäure. Sm. 124° (A. 315, 47).
- $C_{19}H_{17}O_4NS$  1)  $\alpha$ - $\alpha$ -[2-Naphtylsulfon]amido- $\beta$ -Phenylpropionsäure. Sm. 143 bis 144° (B. 35, 3783 C. 1902 [2] 1469).
- 2) Acetyl-4-Methylphenyl-1-Naphtylamin-*p*-Sulfonsäure. Ba (J. pr. [2] 64, 501 C. 1902 [1] 257).
- $C_{19}H_{17}O_5NS$  1) *p*-(1-Piperidyl)-9,10-Anthrachinon-1-Sulfonsäure (D.R.P. 136777 C. 1902 [2] 1373).
- $C_{19}H_{17}ClJAs$  1) Jodmethyltriphenylarsoniumchlorid. Sm. 208° (A. 321, 172 C. 1902 [2] 44).
- $C_{19}H_{17}Cl_3JAs$  1) Chlormethyltriphenylarsoniumjodidechlorid. Sm. 138° (A. 321, 171 C. 1902 [2] 44).

- $C_{19}H_{18}ON_3Cl$  1) uns-Dimethyldiamidotolunaphtazoxoniumchlorid (C. 1902 [2] 458).
- $C_{19}H_{18}OClAs$  1) Oxymethyltriphenylarsoniumchlorid. Sm. 112° (A. 321, 173 C. 1902 [2] 44).
- $C_{19}H_{18}OJAs$  1) Oxymethyltriphenylarsoniumjodid. Sm. 171° (A. 321, 173 C. 1902 [2] 44).
- $C_{19}H_{18}O_2N_2S_4$  1)  $\alpha\gamma$ -Trimethylenester d. Benzoylamidodithioameisensäure. Sm. 154—155° (C. 1902 [1] 1401).
- $C_{19}H_{18}O_2N_2Cl_2$  1) 4-Chlorphenylmonamid d.  $\beta$ -[4-Chlorphenyl]amidoäthen- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 176° (B. 35, 2508 C. 1902 [2] 438).
- $C_{19}H_{18}O_4N_2S_2$  \*2) Di[Phenylamid] d. 1-Methylbenzol-2,4-Disulfonsäure. Sm. 189° (B. 35, 1960 C. 1902 [2] 111).
- $C_{19}H_{18}Cl_2JAs$  1) Methyltriphenylarsoniumjodidichlorid. Sm. 144° (A. 321, 167 C. 1902 [2] 44).
- $C_{19}H_{19}O_2N_2Cl$  1) Äthylester d. 2,4-Diphenylimidazolchlorammoniumessigsäure. Sm. 260° (B. 34, 1832).
- $C_{19}H_{19}O_2N_2Br$  1) Äthylester d. 2,4-Diphenylimidazolbromammoniumessigsäure. Sm. 236° (B. 34, 1832).
- $C_{19}H_{19}O_3NBr_2$  1) Acetat d. 3,6-Dibrom-5-Oxy-1-Acetylphenylamidomethyl-2,4-Dimethylbenzol. Sm. 167—168° (B. 35, 136 C. 1902 [1] 466).
- $C_{19}H_{19}O_3NS_2$  1) Benzoylimidodithiokohlensäurebenzylesteräthylacetat. Sm. 79° (Am. 26, 198).
- 2) Verbindung (aus Benzoylamidodithioameisensäure u.  $\beta$ -Phenylpropionsäureäthylester). Sm. 79° (Am. 26, 199).
- $C_{19}H_{20}ON_2Br_2$  3)  $\alpha$ -Dibromcinchonidin. Sm. 180°. 2HBr (Bl. [3] 25, 85).
- 4)  $\beta$ -Dibromcinchonidin. Zers. bei 200° (Bl. [3] 25, 401).
- $C_{19}H_{20}O_2N_2S$  2) Dialyläther d. s-Di[4-Oxyphenyl]thioharnstoff. Sm. 161° (B. 34, 1941).
- $C_{19}H_{20}O_2Cl_3J$  1) Trichloräthylidenäther d. 4-Isoamylidiphenyljodoniumdihydroxyd. Sm. 85° (B. 34, 3685).
- $C_{19}H_{20}O_4NCl$  1) Diäthylester d. 2,6-Dimethyl-4-[4-Chlorphenyl]pyridin-3,5-Dicarbonsäure. Sm. 67° (J. pr. [2] 65, 289 C. 1902 [1] 1216).
- $C_{19}H_{21}ONS_2$  1) 1-Phenyl-2-[2,4,5-Trimethylphenyl]imidoxanthid. Sm. 96—97° (B. 35, 2473 C. 1902 [2] 441).
- $C_{19}H_{21}ON_2J$  1) Jodeinchonin. Sm. bei 140° (D. R. P. 126796 C. 1902 [1] 80).
- $C_{19}H_{21}O_4N_2Br$  1) Äthyläther d. 5-Brom-2-Nitro-6-Amido-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 171° (B. 35, 2796 C. 1902 [2] 989).
- $C_{19}H_{22}ON_2Br_2$  \*1) Dibromdihydroeinchonin. 2HBr, (2HBrBr<sub>2</sub>) (J. pr. [2] 63, 344).
- 2) Dibromdihydroeinchonidin. 2HCl + 2H<sub>2</sub>O, 2HBr + 2H<sub>2</sub>O, (2HBr, Br<sub>2</sub>), 2HNO<sub>3</sub> + H<sub>2</sub>O, H<sub>2</sub>SO<sub>4</sub> + 6H<sub>2</sub>O (J. pr. [2] 63, 334).
- $C_{19}H_{22}ON_2S$  3) Äthyläther d. Benzoylimido-2,4,5-Trimethylphenylamidomerkaptomethan (Benzoylpseudocumylthioläthylpseudothioharnstoff). Sm. 83—84° (Am. 26, 414).
- $C_{19}H_{22}O_2N_2S_2$  1) Di[Phenylamid] d. Merkaptocessigpropylidenäthersäure. Sm. 170° (J. pr. [2] 66, 187 C. 1902 [2] 933).
- $C_{19}H_{22}O_4NCl$  1) Diäthylester d. 2,6-Dimethyl-4-[4-Chlorphenyl]-1,4-Dihydropyridin-3,5-Dicarbonsäure. Sm. 147° (J. pr. [2] 65, 287 C. 1902 [1] 1216).
- $C_{19}H_{22}O_6N_2S_2$  1) Di[Acetylphenylamid] d. Propan- $\alpha\gamma$ -Disulfonsäure. Sm. 176° (B. 34, 3480).
- $C_{19}H_{23}ON_2Cl$  \*1) Hydrochloreinchonin (M. 22, 269).
- $C_{19}H_{23}ON_2Br$  1) Hydrobromcinchonin. Sm. 182° (M. 22, 153, 274).
- 2) Hydrobromcinchonidin (Bl. [3] 25, 84).
- $C_{19}H_{23}ON_2J$  \*1) Hydrojodeinchonin (M. 22, 278).
- 2) Hydrojodalloeinchonin. 2HJ (M. 22, 198).
- $C_{19}H_{24}ON_3J$  1) 9-Dimethylamido-3-Diäthylamido-4-Methylphenoxazoniumjodid (C. 1902 [2] 378).
- $C_{19}H_{24}OCIP$  1) Diäthylbenzoylmethyl-4-Methylphenylphosphoniumchlorid. 2 + PtCl<sub>4</sub> (A. 315, 91).
- $C_{19}H_{24}O_3NJ$  4) Jodmethylat d. Isocodein. Sm. 262° u. Zers. (Soc. 79, 575).
- $C_{19}H_{24}O_4N_2S$  \*1) Cinchotinsulfonsäure (M. 22, 803).
- $C_{19}H_{24}NSP$  1) Piperidid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 134° (A. 315, 68).



- $C_{10}H_{25}ON_2Br$  1) 4-Bromphenylhydrazon d. Acetonylisocampher. Sm. 154—156° (B. 34, 3060).
- $C_{19}H_{26}O_4NCl$  \*1) Chloräthylat d. l-Scopolamin + 2H<sub>2</sub>O (Ch. d. Hyoscin). + AuCl<sub>3</sub> (J. pr. [2] 64, 369).
- 2) Chloräthylat d. Atroscin. + AuCl<sub>3</sub> (J. pr. [2] 64, 377).
- $C_{19}H_{26}O_4NBr$  1) Bromäthylat d. l-Scopolamin (B. d. l-Hyoscin) (J. pr. [2] 64, 369).
- $C_{19}H_{26}O_4NJ$  \*1) Jodäthylat d. l-Scopolamin (B. d. Hyoscin). Sm. 186° (J. pr. [2] 64, 369).
- 2) Jodäthylat d. Atroscin. Sm. 170° (J. pr. [2] 64, 377).
- $C_{19}H_{26}O_4N_2S_2$  1)  $\alpha\gamma$ -Di[Phenylsulfonamido]heptan. Sm. 104,5—105,5° (J. r. 28, 563).
- $C_{19}H_{37}ONS_2$  1) Cetyl ester d. Acetylamidodithioameisensäure. Sm. 89—90° (C. 1901 [2] 275).

C<sub>20</sub>-Gruppe.

- $C_{20}H_{14}$  \*1) 1,1'-Binaphtyl. Sm. 155° (B. 34, 2184).
- $C_{20}H_{16}$  \*1) 2- oder 3-Benzylfluoren. Sm. 104—106° (M. 23, 925 C. 1902 [2] 1471).
- 5) 4-Benzylfluoren. Sm. 77° (M. 23, 37 C. 1902 [1] 875).
- 6) 9-Benzylfluoren. Sm. 149—150° (B. 34, 1660).
- $C_{20}H_{16}$  7)  $\alpha\beta$ -Diphenyl- $\alpha\gamma\epsilon\eta$ -Oktatetraen. Sm. 124° (B. 34, 2190).
- $C_{20}H_{20}$  C 92,3 — H 7,7 — M. G. 260.
- 1) bim.  $\alpha$ -Phenyl- $\alpha\gamma$ -Butadien. Sd. 221°<sub>17</sub> (B. 35, 2697 C. 1902 [2] 588).
- 2) 1,2-Diphenyl-1,2,5,6-Tetrahydro-R-Okten (Diphenylcyclooctadien). Sd. 204—205°<sub>10</sub> (B. 35, 2137 C. 1902 [2] 187).
- $C_{20}H_{32}$  13) Diterpen (aus Callitris quadrivalis). Sd. 260—280° (Soc. 79, 1150).
- $C_{20}H_{38}$  14) Kohlenwasserstoff (aus Pimarsäure). Sd. 180—185°<sub>11</sub> (Soc. 79, 1155).
- 1) 1-3,3'-Dimethyl-6,6'-Diisopropyldekahydrobiphenyl (1-Bimenthyl). Sm. 105,5—106° (A. 318, 330; C. 1901 [2] 347).
- 3) isom. flüssiges 1-Bimenthyl. Sd. 199—202°<sub>21</sub> (A. 318, 331, 339; C. 1901 [2] 347).
- 4) Kohlenwasserstoff (aus 3-Oxy-1-Methylhexahydrobenzol). Sd. 260° (B. 34, 2882).

## — 20 II —

- $C_{20}H_4O_5$  C 74,1 — H 1,2 — O 24,7 — M. G. 324.
- 1) Verbindung (aus Convallaria majalis). Sm. 61° (C. 1901 [2] 419).
- $C_{20}H_{10}O_6$  2) Cörulein. Siehe auch C<sub>20</sub>H<sub>8</sub>O<sub>6</sub> (Am. 26, 141).
- 3) Violein (B. 34, 2619).
- $C_{20}H_{10}O_7$  \*1) Gallein (B. 34, 2302).
- 4) Verbindung (aus 1-Amido-2,3-Dioxynaphtalin). Zers. bei 250° (C. 1902 [1] 935; M. 23, 523 C. 1902 [2] 744).
- $C_{20}H_{12}O$  \*1)  $\alpha$ -Binaphtylenoxyd. 2 Pikrat (M. 22, 574).
- $C_{20}H_{12}O_2$  2) 9-Keto-2- oder 3-Benzoylfluoren. Sm. 175—177° (M. 23, 926 C. 1902 [2] 1471).
- 3) 9-Keto-4-Benzoylfluoren. Sm. 95°; Sd. oberh. 400° (M. 23, 30 C. 1902 [1] 875).
- $C_{20}H_{12}O_3$  \*1) Fluoran. HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> (Soc. 81, 664 C. 1902 [1] 1296).
- $C_{20}H_{12}O_4$  \*10)  $\alpha\gamma$ - $\delta\zeta$ -Dilakton d.  $\alpha\zeta$ -Dioxy- $\alpha\zeta$ -Diphenyl- $\alpha\gamma\epsilon$ -Hexatrien- $\gamma\delta$ -Dicarbonsäure (A. 299, 56; 319, 207).
- $C_{20}H_{12}O_5$  \*1) Fluorescein. HCl, H<sub>2</sub>SO<sub>4</sub>, 2H<sub>2</sub>SO<sub>4</sub> (Soc. 81, 665 C. 1902 [1] 1296).
- $C_{20}H_{12}O_6$  4) Dibenzozat d. 2,5-Dioxy-1,4-Benzochinon. Sm. 174° (B. 34, 3996 C. 1902 [1] 187).
- $C_{20}H_{12}O_7$  4) Dioxyfluorescein. NH<sub>4</sub> (B. 34, 2299, 2618, 2637).
- 5) Gallein. Siehe auch C<sub>20</sub>H<sub>10</sub>O<sub>7</sub>, 4 PbOH (Am. 26, 117).
- $C_{20}H_{12}N_2$  \*3)  $\alpha\beta\beta$ -Dinaphtazin. Sm. 247° (A. 319, 265 C. 1902 [1] 359).
- $C_{20}H_{12}J_2$  1) 4,4'-Dijod-1,1'-Binaphtyl. Sm. 238,6° (B. 33, 697). — \*II, 130.
- $C_{20}H_{13}N_3$  5) N-Phenyl-ps-Indophenazin. Sm. 265—266° (B. 34, 4014 C. 1902 [1] 205).
- $C_{20}H_{14}O$  5) 2- oder 3-Benzoylfluoren. Sm. 124—126° (M. 23, 922 C. 1902 [2] 1471).
- $C_{20}H_{14}O_2$  16) 9-Keto-4-[ $\alpha$ -Oxybenzyl]fluoren (oder 9-Oxy-4-Benzoylfluoren). Sm. 129° (M. 23, 40 C. 1902 [1] 876).

- $C_{20}H_{14}O_3$  14) Aethyläther d. Anhydrobisdiketodihydroinden. Sm. 159° (B. 34, 3272).
- $C_{20}H_{14}O_9$  15) Lakton d. 1-[ $\alpha$ -Oxy- $\beta$ -Benzoyläthyl]naphtalin-8-Carbonsäure (Naphtalidmethylphenylketon). Sm. 127° (M. 22, 814).
- $C_{20}H_{14}N_2$  \*1) Psoromsäure. Sm. 260° u. Zers. (A. 317, 114).  
\*2) 1,1'-Azonaphtalin. Sm. 189° (A. 317, 384).
- 11) Dihydro- $\alpha$ - $\beta$ - $\beta$ -Dinaphtazin. Sm. oberh. 300° (A. 319, 264 C. 1902 [1] 359).
- 12) isom. Dihydrodinaphtazin. Sm. noch nicht bei 300° (A. 319, 266 C. 1902 [1] 359).
- $C_{20}H_{14}N_4$  5) 4-[ $\alpha$ -Cyanbenzyliden]amidoazobenzol. Sm. 138—139° (B. 35, 3350 C. 1902 [2] 1195).
- $C_{20}H_{14}As_2$  2) 2-Arsenonaphtalin. Sm. 234° (A. 320, 344 C. 1902 [1] 923).
- $C_{20}H_{15}N$  \*3) 2, 2'-Dinaphtylamin. Sm. 170,5°, Pikrat (B. 34, 4151 C. 1902 [1] 316).
- 11) 2-Phenylamidophenanthren (A. 321, 321 C. 1902 [2] 60).
- $C_{20}H_{15}N_3$  \*8) 1, 3, 4-Triphenyl-1, 2, 5-Triazol. Sm. 122° (B. 35, 3520 C. 1902 [2] 1323).
- 11) 1, 2, 5-Triphenyl-1, 3, 4-Triazol. Sm. 304—305°. HCl (G. 31 [2] 130).
- $C_{20}H_{15}N_5$  \*2) Phenylhydrazon d. 3-Benzoyl-1, 2, 4-Benzotriazin. Sm. bei 185° (J. pr. [2] 65, 146 C. 1902 [1] 1002).
- $C_{20}H_{16}O$  \*1)  $\beta$ -Oxy- $\alpha$ - $\beta$ -Triphenyläthen ( $\beta$ -Keto- $\alpha$ - $\beta$ -Triphenyläthan) (B. 35, 248).
- 8) Tetrahydro- $\beta$ -Binaphtylenoxyd. Sm. 168° (M. 23, 833 C. 1902 [2] 1468).
- $C_{20}H_{16}O_2$  9) 9-Oxy-4-[ $\alpha$ -Oxybenzyl]fluoren. Sm. 145° (M. 23, 38 C. 1902 [1] 875).
- $C_{20}H_{16}O_3$  11) 4-Oxytriphenylelessigsäure. Sm. 212° u. Zers. Ag (B. 34, 3063).
- 12) 4-Benzylphenylester d. 2-Oxybenzol-1-Carbonsäure. Sm. 102° (D. R. P. 68111). — \*II, 888.
- $C_{20}H_{16}O_4$  19) Monoäthylester d. 1, 2-Diphenyl-R-Buten-3, 4-Dicarbonsäure. Sm. 207° u. Zers. Ag (B. 35, 1409 C. 1902 [1] 1156).
- $C_{20}H_{16}O_5$  9) Diacetat d. 5, 7-Dioxy-4-Methylen-2-Phenyl-1, 4-Benzpyran (B. 34, 1799).
- 10) Diacetat d. 7, 8-Dioxy-4-Methylen-2-Phenyl-1, 4-Benzpyran (B. 34, 1803).
- $C_{20}H_{16}O_6$  17) Triacetat d. 1, 4, 9-Trioxyanthracen. Sm. 188—189° (B. 35, 2925 C. 1902 [2] 1049).
- 18) Triacetat d. 1, 5, 9-Trioxyanthracen. Sm. 184—185° (B. 35, 2928 C. 1902 [2] 1050).
- 19) Triacetat d. 1, 6, 9- oder 1, 6, 10-Trioxyanthracen. Sm. 209—210° (B. 35, 2930 C. 1902 [2] 1051).
- $C_{20}H_{16}O_8$  8) Verbindung (aus 4, 5-Dioxybenzoldimethyläther-1-Carbonsäure-2-Ketocarbonsäure). Sm. oberh. 260° (Soc. 81, 1023 C. 1902 [2] 746).
- $C_{20}H_{16}O_9$  4) Tetraacetat d.  $\beta$ -Tetraoxybiphenylenoxyd (M. 22, 595).
- $C_{20}H_{16}N_2$  24) 2-Benzylidenhydrazidofluoren. Sm. 188° (B. 34, 1763).
- $C_{20}H_{16}N_4$  9) 4-[ $\alpha$ -Cyanbenzyl]amidoazobenzol. Sm. 116° (B. 35, 3349 C. 1902 [2] 1195).
- 10) 2-[2-Benzylidenhydrazidophenyl]benzimidazol. Sm. 180° u. Zers. (B. 34, 2967).
- 11) 2-[3-Benzylidenhydrazidophenyl]benzimidazol. Sm. 270° (B. 34, 2968).
- 12) 2-[4-Benzylidenhydrazidophenyl]benzimidazol. Zers. bei 120° (B. 34, 2968).
- $C_{20}H_{17}N$  6)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 113°. HCl +  $H_2O$ , (2HCl,  $PtCl_4$ ), (HCl,  $HgCl_2$ ), Pikrat (B. 35, 2777 C. 1902 [2] 992).
- $C_{20}H_{17}N_5$  C 73,4 — H 5,2 — N 21,4 — M. G. 327.
- 1) 3, 5-Di[Phenylimido]-4-Phenyltetrahydro-1, 2, 4-Triazol. Sm. 234°. +  $C_2H_6O$ , HCl (B. 35, 1720 C. 1902 [2] 31).
- $C_{20}H_{18}O$  \*5) 3-Keto- $\beta$ -Dibenzyliden-1-Methyl-R-Pentamethylen. Sm. 150° (C. 1902 [1] 1221).
- 6) Methyläther d. 4-Oxytriphenylmethan. Sm. 61° (B. 35, 3137 C. 1902 [2] 1210).
- $C_{20}H_{18}O_2$  8) 4-Methyläther d.  $\alpha$ , 4-Dioxytriphenylmethan. Sm. 58—61° (84°) (B. 35, 3027 C. 1902 [2] 1114; B. 35, 3137 C. 1902 [2] 1210).

- $C_{20}H_{18}O_5$  \* 1)  $\alpha$ -Tetramethyläther d. Dehydrobrasilin. Sm. 163—165° (*M.* 23, 177 *C.* 1902 [1] 1106).
- 10)  $\beta$ -Tetramethyläther d. Dehydrobrasilin. Sm. 156—159° (*M.* 23, 177 *C.* 1902 [1] 1106).
- 11)  $\gamma$ -Tetramethyläther d. Dehydrobrasilin. Sm. 130—135° (*M.* 23, 178 *C.* 1902 [1] 1106).
- $C_{20}H_{18}O_6$  \* 4) Tetramethyläther d. Dehydrohämatoxylin. Sm. 208—210° (*Soc.* 81, 1063 *C.* 1902 [2] 750).
- 11) Triacetat d. 1,4,9-Trioxo-9,10-Dihydroanthracen. Sm. 79—80° (*B.* 35, 2924 *C.* 1902 [2] 1049).
- 12) Triacetat d. 1,5,9-Trioxo-9,10-Dihydroanthracen. Sm. 162—163° (*B.* 35, 2927 *C.* 1902 [2] 1050).
- 13) Verbindung (aus Oxalsäure u. Zimmtsäurealdehyd). Sm. 60—62° (*B.* 35, 1211 *C.* 1902 [1] 998).
- $C_{20}H_{18}O_7$  8) Dibenzoat d. Cellulose (*B.* 34, 1514).
- $C_{20}H_{18}O_8$  14) Diäthylester d. 1,2-Peroxydphthalsäure. Sm. 58—59° (*B.* 34, 765).
- $C_{20}H_{18}O_9$  \* 3) Anhydrid d. Opiansäure. Sm. 234° (*M.* 23, 377 *C.* 1902 [2] 203).
- 6) Cetrarsäure. Zers. bei 200—230°.  $NH_4$ , Na, K, Ca, Pyridinsalz,  $\alpha$ -Pikolinsalz, Chinolinsalz (*Ar.* 240, 521 *C.* 1902 [2] 1328).
- $C_{20}H_{18}O_{10}$  \* 3) Methylester d. Anhydroeuxanthinsäure. Sm. 218° (*A.* 318, 357).
- $C_{20}H_{18}N_2$  \* 13)  $\alpha$ -Phenylhydrazon- $\alpha\beta$ -Diphenyläthan. Sm. 132° (*B.* 35, 1990 *C.* 1902 [2] 367).
- $C_{20}H_{18}N_4$  23) 2,3-Diphenyl-2,3-Dihydro-1,2,4-Benzotriazin. Sm. 200° u. Zers. (*C.* 1902 [1] 350).
- $C_{20}H_{19}N$  5)  $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[2-Chinolyl]äthen. Sm. 102°. HCl, Pikrat (*B.* 35, 1956 *C.* 1902 [2] 130).
- $C_{20}H_{19}N_3$  \* 1) Phenylimidodi[Phenylamido]äthan (Acetyltriphenyltriamin). 2HCl, (2HCl,  $PtCl_4$ ) (*C.* 1901 [2] 28; 1902 [2] 121).
- \* 5) Diphenyl-4-Methylphenylguanidin.  $HNO_3$ . (*Am.* 28, 164 *C.* 1902 [2] 795).
- 7)  $\beta$ -Amido- $\alpha$ -Phenylhydrazon- $\alpha\beta$ -Diphenyläthan. Sm. 226—227° (*B.* 35, 2742 *C.* 1902 [2] 645).
- 8) 6-[2-Naphtyl]diazooamido-1,2,3,4-Tetrahydronaphtalin. Sm. 137,5° (*Soc.* 81, 906 *C.* 1902 [2] 214).
- 9) Diphenyl-3-Methylphenylguanidin. Sm. 132°. HCl, (2HCl,  $PtCl_4$ ),  $HNO_3$  (*Am.* 28, 296 *C.* 1902 [2] 1323).
- 10) 2-Amido-1',2',3',4'-Tetrahydro-1,6'-Azonaphtalin. Sm. 130° (*Soc.* 81, 906 *C.* 1902 [2] 214).
- $C_{20}H_{19}As$  1) Phenylidi[4-Methylphenyl]arsin. Sm. 101°. (2HCl,  $PtCl_4$ ) +  $HgCl_2$  (*A.* 321, 192 *C.* 1902 [2] 46).
- $C_{20}H_{20}O$  2) Oktohydro- $\alpha$ -Binaphtylenoxyd. Sm. 128° (*M.* 22, 574). — \*II, 610.
- $C_{20}H_{20}O_2$  2) 2-Keto-1-[ $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpropyl]-R-Pentamethylen. Sm. 78 bis 80° (*B.* 35, 1445 *C.* 1902 [1] 1161).
- 3) 1-Oxy-3-Keto-2-Propyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 152° (*Soc.* 79, 1040).
- 4) 1-Oxy-3-Keto-4-Propyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 89° (*Soc.* 79, 1040).
- 5) 1-Oxy-3-Keto-2,2,4-Trimethyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 131° (*Soc.* 79, 1039).
- $C_{20}H_{20}O_4$  \* 16) Dimethylester d.  $\alpha$ -Truxillsäure. Sm. 173° (*B.* 35, 2909 *C.* 1902 [2] 1045).
- 29) Diäthylester d. 4-Keto-6-Methyl-2-[4-Methylphenyl]-1,2,3,4-Tetrahydrobenzol-1,3-Dicarbonsäure. Sm. 84—85° (*B.* 34, 788).
- $C_{20}H_{20}O_6$  13) Dimethylester d. Verb.  $C_{18}H_{16}O_6$ ? Sm. 141° (*Am.* 25, 411).
- 14) 2',5',7'-Trimethyläther-2'-Äthyläther d. 5,7-Dioxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 222—222,5° (*B.* 34, 1451).
- $C_{20}H_{20}O_7$  \* 5) Tetramethyläther d. Hämatoxylon. Sm. 190—195° u. Zers. (*Soc.* 81, 1060 *C.* 1902 [2] 750).
- 7) Äthylester d. Usnolsäure. Sm. 175—176° (*A.* 324, 181 *C.* 1902 [2] 1512).
- $C_{20}H_{20}O_8$  5) Pentamethyläther d. Myricetin. Sm. 138—139° (*Soc.* 81, 205 *C.* 1902 [1] 528, 815).
- $C_{20}H_{20}O_9$  \* 4) Lakton d. Dihydrohämatoxylinssäure. Sm. 192—193°. Ag (*Soc.* 81, 244 *C.* 1902 [1] 817).

- $C_{20}H_{20}O_{10}$  \*5) Hämatoxylinssäure (Soc. 81, 243 C. 1902 [1] 817).  
 $C_{20}H_{22}O_3$  5) Verbindung (aus Sternanisöl). Sm. 212° (Bl. [3] 27, 990 C. 1902 [2] 1256).  
 $C_{20}H_{22}O_4$  14) Diäthyläther d.  $\alpha\gamma$ -Diketo- $\delta$ -Phenyl- $\alpha$ -[2,4-Dioxyphenyl]butan. Sm. 75° (B. 35, 866 C. 1902 [1] 813).  
 15) Diacetat d.  $\alpha\gamma$ -Dioxy- $\alpha\gamma$ -Diphenyl- $\beta$ -Methylpropan. Sm. 123—124° (Soc. 79, 930).  
 $C_{20}H_{22}O_6$  \*5) Tetramethyläther d. Hämatoxylin + 2H<sub>2</sub>O. Sm. 65—70° (140 bis 142° wasserfrei) (Soc. 81, 240 C. 1902 [1] 816; Soc. 81, 1059 C. 1902 [2] 750).  
 13) 2,4,6-Trimethyläther-2'-Äthyläther d. 2,4,6,2'-Tetraoxydibenzoylmethan. Sm. 112° (B. 34, 1454).  
 14) 2,4,6-Trimethyläther-3'-Äthyläther d. 2,4,6,3'-Tetraoxydibenzoylmethan. Sm. 112° (B. 34, 1454).  
 $C_{20}H_{22}O_7$  4) 2,4,6,3',4'-Pentaoxydibenzoylmethan. Sm. 112—113,5° (B. 34, 1449).  
 5) Verbindung (aus d. Wurzelrinde von *Piscidia Erythrina* L.). Sm. 150 bis 155° (Am. 25, 406).  
 $C_{20}H_{23}N_3$  5) 1,2,3,4,1',2',3',4'-Oktahydro-6,6'-Diazoamidonaphtalin. Sm. 104° (Soc. 81, 905 C. 1902 [2] 214).  
 $C_{20}H_{24}O_2$  6) Dimethyläther d. bim.  $\beta$ -[4-Oxyphenyl]propen. Sm. 58° (C. 1901 [1] 831). — \*II, 498.  
 7)  $\alpha$ -Naphtofenchon. Sm. 51° (Bl. [3] 27, 604 C. 1902 [2] 365).  
 8)  $\beta$ -Naphtofenchon. Sm. 57° (Bl. [3] 27, 604 C. 1902 [2] 365).  
 $C_{20}H_{24}O_{10}$  \*1) Tetraacetat d.  $\beta$ -Phenolglykosid. Sm. 127° (B. 34, 2897).  
 2) Tetraacetat d.  $\beta$ -Phenolgalaktosid. Sm. 123—124° (B. 35, 838 C. 1902 [1] 758).  
 $C_{20}H_{24}O_{12}$  2) Plumieridsäure (R. 19, 353).  
 $C_{20}H_{24}N_2$  4)  $\alpha\beta$ -Di[2-Isochinolyl]äthan. Sm. 95° (C. r. 134, 1358 C. 1902 [2] 194).  
 $C_{20}H_{22}N$  C 86,0 — H 9,0 — N 5,0 — M. G. 279.  
 1)  $\alpha$ -[4-Methylphenyl]- $\beta$ -[6-Phenylhexahydro-2-Pyridyl]äthan. Sd. 245°<sub>20</sub>. HCl, Pikrat (B. 35, 2778 C. 1902 [2] 993).  
 2)  $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[1,2,3,4-Tetrahydro-2-Chinolyl]äthan. Fl. HCl (B. 35, 1957 C. 1902 [2] 130).  
 $C_{20}H_{25}J_3$  1)  $\beta$ -Joddi[4-tert. Butylphenyl]jodoniumjodid. Sm. 86—87° (B. 34, 3674).  
 $C_{20}H_{26}O$  \*2) Cuminäther. Sd. 254°<sub>0,5</sub> (G. 31 [1] 369).  
 $C_{20}H_{26}O_6$  2) Diäthylester d.  $\beta\epsilon$ -Diketo- $\delta$ -[4-Methylphenyl]heptan- $\gamma\epsilon$ -Dicarbonsäure (D. d. 4-Methylbenzylidenbisacetessigsäure). Sm. 132,5° (B. 34, 787).  
 3) Diäthylester d. m-Xylylendiacetessigsäure (B. 34, 2790).  
 $C_{20}H_{26}N_2$  \*3)  $\alpha$ -[2,4-Dimethylphenyl]imido- $\gamma$ -[2,4-Dimethylphenyl]amidobutan? Sm. 147° (A. 318, 75).  
 6) 2-Äthyl-1,3-Di[4-Methylphenyl]hexahydro-1,3-Diazin. Sm. 98° (B. 34, 1511).  
 7) 1,4-Di[2,4-Dimethylphenyl]hexahydro-1,4-Diazin (Dixylpiperazin). Sm. 151° (Soc. 79, 256; B. 34, 1510).  
 $C_{20}H_{26}N_4$  \*3)  $\delta\epsilon$ -Di[Phenylhydrazon]oktan. Sm. 137° (G. 31 [1] 461).  
 $C_{20}H_{26}J_2$  1) Di[4-tert. Butylphenyl]jodoniumjodid. Sm. 142° u. Zers. (B. 34, 3671).  
 $C_{20}H_{26}J_4$  1) Di[4-tert. Butylphenyl]jodoniumtrijodid. Sm. 138° u. Zers. (B. 34, 3672).  
 $C_{20}H_{26}As_2$  1) 4,4'-Di[tert. Butylphenyl]arsenobenzol. Sm. 198° (A. 320, 341 C. 1902 [1] 923).  
 $C_{20}H_{27}N$  5) Di[2,4,5-Trimethylbenzyl]amin. Sm. 78°. HCl, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>, HNO<sub>2</sub> (B. 34, 554).  
 $C_{20}H_{28}O_2$  4) Menthylester d.  $\alpha$ -Phenylpropen- $\beta$ -Carbonsäure. Sm. 50° (Soc. 79, 1311 C. 1902 [1] 195).  
 $C_{20}H_{28}O_3$  3) Illurinsäure. Sm. 128—129°. Na + 6H<sub>2</sub>O, Ba + 4H<sub>2</sub>O, Pb, Ag (C. 1901 [2] 1227).  
 4) Säure (aus Illurinsäure). Sm. 108—109° (C. 1901 [2] 1227).  
 $C_{20}H_{28}O_5$  3)  $\alpha$ -Hopfenbittersäure (oder C<sub>20</sub>H<sub>30</sub>O<sub>5</sub>). Sm. 56° (C. 1902 [2] 745).  
 $C_{20}H_{28}N_2$  6)  $\alpha\beta$ -Di[2,4,5-Trimethylphenylamido]äthan. Sm. 168°. + HgCl<sub>2</sub>, (2HCl, PtCl<sub>4</sub>), 2HNO<sub>3</sub> (Soc. 79, 256).  
 7) Dicamphenisopyrazin. Sm. 202—203°. Pikrat, + HgCl<sub>2</sub> (B. 35, 3665 C. 1902 [2] 1464).

- $C_{20}H_{30}O$  3) Verbindung (aus Perubalsam) oder  $C_{20}H_{35}O$ . Sd.  $112^{\circ}_{10}$  (C. 1902 [1] 1402).
- $C_{20}H_{30}O_2$  \*17) Sylbinsäure (C. 1902 [1] 120).
- \*24) Picea-Pimarsäure. Sm.  $145^{\circ}$ . K, Ca, Pb, Ag (Ar. 240, 278 C. 1902 [2] 134).
- 25) isom. i-Pimarsäure. Sm.  $171^{\circ}$ ; Sd.  $265^{\circ}_{11}$ . Na, K, Ag (Soc. 79, 1151).
- 26) Menthylester d.  $\alpha$ -Phenylpropan- $\beta$ -Carbonsäure (M. d.  $\alpha$ -Methyl-dihydrozimmtsäure). Sm.  $37^{\circ}$  (Soc. 79, 1311 C. 1902 [1] 195).
- $C_{20}H_{30}O_3$  \*2) Säure (aus Colophonium) (C. 1902 [1] 526).
- $C_{20}H_{30}O_4$  6) Dioxysylbinsäure (C. 1902 [1] 120).
- $C_{20}H_{30}O_6$  5) Tetraoxysylbinsäure (C. 1902 [1] 120).
- $C_{20}H_{30}O_8$  2) Tetraäthylester d. Äthylidendiglutakonsäure. Sd.  $150-160^{\circ}_{14}$  (B. 35, 1665 C. 1902 [1] 1320).
- $C_{20}H_{32}O$  5) Mankopalorenen. Sm.  $80-85^{\circ}$  (Ar. 240, 218 C. 1902 [1] 1224).
- $C_{20}H_{32}O_2$  8) Verbindung (aus Fenchon). Sm.  $122^{\circ}$  (A. 315, 274).
- $C_{20}H_{32}O_3$  C 75,0 — H 10,0 — O 15,0 — M. G. 320.
- $C_{20}H_{32}O_8$  1) Paracopaivasäure. Sm.  $145-148^{\circ}$  (C. 1901 [2] 886).
- C 60,0 — H 8,0 — O 32,0 — M. G. 400.
- 1) Tetraäthylester d. 1,1-Dimethyl-R-Trimethylen-2,3-Dicarbon-säure-2-[Propyl- $\alpha\alpha$ -Dicarbonsäure]. Sd.  $230-232^{\circ}_{30}$  (Soc. 79, 770).
- $C_{20}H_{32}O_{10}$  C 55,5 — H 7,4 — O 37,0 — M. G. 432.
- $C_{20}H_{34}O_5$  1) Pentaacetat d.  $\alpha\beta\delta\zeta\eta$ -Pentaoxy- $\delta$ -Propylheptan. Fl. (J. pr. [2] 65, 47).
- 3) Acetylderivat d. Säureanhydrid  $C_{18}H_{32}O_4$  (aus Dioxystearinsäure). Fl. (Soc. 79, 1322 C. 1902 [1] 179).
- $C_{20}H_{34}O_6$  2) Tetraoxytetrahydroxysylbinsäure (C. 1902 [1] 121).
- $C_{20}H_{36}N_2$  \*1) Menthazin. Sm.  $50-52^{\circ}$  (J. pr. [2] 64, 125).
- $C_{20}H_{38}O_5$  C 67,0 — H 10,6 — O 22,4 — M. G. 358.
- 1) Dimethylester d. Säure  $C_{18}H_{34}O_5$  (aus Dioxystearinsäure). Sd. 258 bis  $259^{\circ}_{30}$  (Soc. 79, 1320 C. 1902 [1] 179).
- $C_{20}H_{38}O_6$  2) Diäthylester d. Agaricinsäure. Sm.  $36-37^{\circ}$  (C. 1902 [1] 823).
- C 64,2 — H 10,1 — O 25,7 — M. G. 374.
- 1) sec. Dioktylester d. Weinsäure. Sd.  $225^{\circ}_{20}$  (Soc. 81, 1221 C. 1902 [2] 887).
- $C_{20}H_{40}O$  3)  $\beta\epsilon\lambda$ -Trimethyl- $\theta$ -Isoamyl-dodekan- $\epsilon$ - $\theta$ -Oxyd. Sd.  $175-178^{\circ}$  (C. r. 135, 629 C. 1902 [2] 1359).
- $C_{20}H_{40}O_2$  \*1) Arachinsäure. Sd.  $328^{\circ}$  (M. 22, 419).
- $C_{20}H_{40}N_2$  C 77,9 — H 13,0 — N 9,1 — M. G. 308.
- 1) Base (aus d. Verb.  $C_{20}H_{35}N_2Cl$ ). Sd.  $203-204^{\circ}_{16}$ . (2 HCl, PtCl<sub>4</sub>) (A. 324, 306 C. 1902 [2] 1507).
- $C_{20}H_{42}O_2$  2)  $\epsilon$ - $\theta$ -Dioxy- $\beta\epsilon\lambda$ -Trimethyl- $\theta$ -Isoamyl-dodekan. Sd.  $205-208^{\circ}_{13}$  (C. r. 135, 629 C. 1902 [2] 1359).
- 20 III —
- $C_{20}H_9O_3J_4$  1) Tetraiodfluorescein (Erythrosin) (B. 24, 1484).
- $C_{20}H_{10}O_3S_2$  1) Verbindung (aus Thiofluorescein). Sm. noch nicht bei  $300^{\circ}$  (R. 20, 138).
- $C_{20}H_{10}O_4J_4$  2) Di[2,4-Dijodphenylester] d. Benzol-1,2-Dicarbonsäure. Sm.  $153^{\circ}$  (C. r. 133, 161).
- $C_{20}H_{10}O_5Br_2$  \*1) 4,5-Dibromfluorescein (Soc. 81, 897 C. 1902 [2] 214).
- $C_{20}H_{10}O_5Br_2$  1) Dibromdioxylfluorescein. Zers. oberh.  $200^{\circ}$  (B. 34, 2619).
- $C_{20}H_{10}O_6N_2$  \*1) 4,5-Dinitrofluorescein (C. 1900 [2] 1241; 1901 [1] 184; Soc. 81, 893 C. 1902 [2] 213, 450).
- $C_{20}H_{11}ON$  C 85,4 — H 3,9 — O 5,7 — N 5,0 — M. G. 281.
- 1) Akridinderivat (aus 1-Phenylamido-9,10-Anthrachinon oder o-Akridylbenzoesäure). Sm.  $206^{\circ}$  (C. 1902 [2] 368; D. R. P. 126444 C. 1902 [1] 79).
- $C_{20}H_{11}O_2N_3$  2) 3-Nitrophenanthrophenazin (3-Nitrodiphenylenchinoxalin). Sm. 252 bis  $253^{\circ}$  (B. 35, 3120 C. 1902 [2] 1212).
- $C_{20}H_{12}ON_2$  4) 3-Oxyphenanthrophenazin. Sm. noch nicht bei  $340^{\circ}$  (A. 322, 141 C. 1902 [2] 281).
- 5) Verbindung (aus 1-Nitronaphtalin). Sm.  $120^{\circ}$  (A. 321, 63 C. 1902 [1] 935).
- $C_{20}H_{12}O_2S$  3) Phenyläther d. 1-Merkapto-9,10-Anthrachinon. Sm.  $185^{\circ}$  (C. 1901 [1] 211).
- $C_{20}H_{12}O_4N_2$  2) 8-Nitro-1-Phenylamido-9,10-Anthrachinon (C. 1901 [2] 1373).



- $C_{20}H_{12}O_5N_4$  C 61,8 — H 3,1 — O 20,6 — N 14,4 — M. G. 388.  
1) 5,5'-Dinitro-1,1'-Azoxynaphtalin. Zers. oberh. 200° (A. 321, 65 C. 1902 [1] 935).
- $C_{20}H_{12}O_5S$  1) Benzolsulfonat d. 2-Oxy-9,10-Phenanthrenchinon (A. 322, 163 C. 1902 [2] 283).  
2) Benzolsulfonat d. 3-Oxy-9,10-Phenanthrenchinon. Sm. 216—218° (A. 322, 145 C. 1902 [2] 282).  
C 55,6 — H 2,8 — O 22,2 — N 19,4 — M. G. 432.
- $C_{20}H_{12}O_6N_6$  1) 1,2,4-Tri[4-Nitrophenyl]-1,2,5-Triazol. Sm. 285—286° (B. 35, 3521 C. 1902 [2] 1323).
- $C_{20}H_{12}N_3Br_3$  1) 1,3,4-Tri[4-Bromphenyl]-1,2,5-Triazol? Sm. 193—194° (B. 35, 3520 C. 1902 [2] 1323).
- $C_{20}H_{13}O_2N$  9) Monooxim d. 9-Keto-2- oder 3-Benzoylfluoren. Sm. 199° (M. 23, 927 C. 1902 [2] 1471).  
10) Monooxim d. 9-Keto-4-Benzoylfluoren. Sm. 146° (M. 23, 35 C. 1902 [1] 875).
- $C_{20}H_{13}O_2N_2$  2) 4-Phtalylamidoazobenzol. Sm. 250° (B. 35, 1432 C. 1902 [1] 1161).
- $C_{20}H_{13}O_3N_3$  2) Trijodrosolsäure (D. R. P. 85929). — \*II, 702.
- $C_{20}H_{13}O_4Br$  1) 3- oder 4-Brom-1,2,9-Trioxo-10-[4-Oxyphenyl]anthracen (C. 1901 [1] 488).
- $C_{20}H_{13}O_6N$  4) Dibenzoat d. 2-Nitro-1,3-Dioxybenzol. Sm. 138—139° (B. 34, 667). — \*II, 720.
- $C_{20}H_{13}O_7N_3$  2) 3,5-Dinitro-2-Phenylbenzoylamidobenzol-1-Carbonsäure. Sm. 120 bis 121° (M. 22, 391).  
C 56,7 — H 3,1 — O 30,3 — N 9,9 — M. G. 423.
- $C_{20}H_{13}O_8N_3$  1) Benzoylderivat d. 4,6-Dinitro-4'-Oxydiphenylamin-2-Carbonsäure. Sm. 123° (M. 22, 393).  
C 56,2 — H 3,0 — O 37,5 — N 3,3 — M. G. 427.
- $C_{20}H_{13}O_{10}N$  1) Triacetat d.  $\alpha$ -4-Nitro-1,2,3-Trioxo-9,10-Anthrachinon. Sm. 233° (M. 22, 719).
- $C_{20}H_{13}N_3Cl_2$  1) 1,1'-Dichlor-2,2'-Diazoamidonaphtalin. Sm. 152° (145—149° u. Zers.) (Soc. 81, 98 C. 1902 [1] 186, 416; Soc. 81, 1381 C. 1902 [2] 1189).
- $C_{20}H_{14}ON_2$  \*4) Phenylhydrazon d. 9,10-Phenanthrenchinon. Sm. 162—163° (A. 321, 303 C. 1902 [2] 59).  
\*5) 1,1'-Azoxynaphtalin. Sm. 127° (A. 317, 382).
- $C_{20}H_{14}OBr_2$  1) Dibromtetrahydro- $\beta$ -Binaphtylenoxyd. Sm. 137° (M. 23, 835 C. 1902 [2] 1469).
- $C_{20}H_{14}O_2N_2$  12) 9-Oximido-2- oder 3-[ $\alpha$ -Oxidobenzyl]fluoren. Sm. 228—230° u. Zers. (M. 23, 926 C. 1902 [2] 1471).  
13) 9-Oximido-4-[ $\alpha$ -Oxidobenzyl]fluoren. Sm. 215° u. Zers. (M. 23, 34 C. 1902 [1] 875).  
14) 10-Phenylhydrazon-3-Oxy-9-Keto-9,10-Dihydrophenanthren. Sm. 235—238° (A. 322, 143 C. 1902 [2] 281).  
15) 2,4-Dioxy-1,1'-Azonaphtalin. Sm. 228—229° (C. 1902 [2] 938).  
16) 9-Phenylhydrazonfluoren-1-Carbonsäure. Sm. 230—232° u. Zers. (M. 23, 893 C. 1902 [2] 1472).
- $C_{20}H_{14}O_2N_4$  17) Verbindung (aus 1-Nitronaphtalin) (A. 321, 64 C. 1902 [1] 935).  
1) 1-[4-Nitrophenyl]-3,4-Diphenyl-1,2,5-Triazol. Sm. 160—162° (B. 35, 3520, 3522 C. 1902 [2] 1323).
- $C_{20}H_{14}O_2S_2$  4) Laktone d. 1-Dimerkaptooxymethylbenzoldiphenyläther-2-Carbonsäure (Bithiophenolphtalid). Sm. 84—85° (J. pr. [2] 66, 351 C. 1902 [2] 1302).
- $C_{20}H_{14}O_3N_2$  9) Benzyliden-4-Methylbenzo- $\beta$ -Ketopentamethylenazinmethylsäure. Sm. oberh. 200° (Bl. [3] 25, 722).  
10) Anhydrid d. 6-Methyl-1,4-Benzdiazin-2-Benzylidenmethylsäure-3-Methylsäure? Sm. 163° (Bl. [3] 25, 723).  
11) Verbindung (aus Fumarsäureäthylester, Benzylcyanid u. Natriumäthylat). Sm. 204—205° (B. 33, 966). — \*II, 815.
- $C_{20}H_{14}O_3Br_2$  1) 2-Dibrom-4-Oxytriphenylsäure. Sm. 194—195° (B. 34, 3068).
- $C_{20}H_{14}O_4S$  3) Benzolsulfonat d. 3-Oxyphenanthren. Sm. 105—107° (A. 321, 292 C. 1902 [2] 58).  
4) Benzolsulfonat d. 9-Oxyphenanthren. Sm. 88,5° (A. 321, 303 C. 1902 [2] 59).
- $C_{20}H_{14}O_4N_4$  6) Di[4-Methylphenyl]indoxylsäureanhydrid (B. 35, 525 C. 1902 [1] 659).

- $C_{20}H_{14}O_4N_4$  8) 1,4-Di[4-Nitrobenzylidenamido]benzol (D. R. P. 135335 *C.* 1902 [2] 1167).
- $C_{20}H_{14}O_5N_6$  2)  $\beta$ -[3-Nitrophenyl]azo- $\beta$ -[3-Nitrophenyl]hydrazon- $\alpha$ -Keto- $\alpha$ -Phenyl-äthan (m-Dinitroformazylphenylketon). Sm. 210° u. Zers. (*B.* 34, 2015).
- $C_{20}H_{14}O_6N_2$  5) Verbindung (aus Chlormethyl-5-Acetylamido-2-Oxyphenylketon) (*B.* 34, 129).
- $C_{20}H_{14}O_8S_2$  3) Laktone d. 1-Diphenylsulfonoxymethylbenzol-2-Carbonsäure. Sm. 193—194° (*J. pr.* [2] 66, 349 *C.* 1902 [2] 1302).
- $C_{40}H_{14}O_7S$  1) p-Methoxyresorcinsulfurein (*Am.* 20, 295). — \*II, 703.
- $C_{20}H_{14}O_{16}N_4$  \*1) 4,6-Dinitro-1,3-Di[4-Oxyphenylamido]benzol-1<sup>3</sup>,3<sup>4</sup>-Dicarbonsäure (*C.* 1901 [1] 1395).
- $C_{20}H_{14}N_2Cl_2$  1) 1,4-Di[4-Chlorbenzylidenamido]benzol. Sm. 200° (*J. pr.* [2] 65, 266 *C.* 1902 [1] 1214).
- $C_{20}H_{15}ON$  5) 2- oder 3-[ $\alpha$ -Oximidobenzyl]fluoren. Sm. 205° (*M.* 23, 923 *C.* 1902 [2] 1471).
- $C_{20}H_{15}ON_3$  13) 2-[3-Benzoylamidophenyl]benzimidazol. Sm. 139° (*B.* 34, 2961).
- 14) 2-[4-Benzoylamidophenyl]benzimidazol. Sm. 333° (*B.* 34, 2962).
- $C_{20}H_{15}O_2N$  10) Methylenäther d.  $\alpha$ -[3,4-Dioxyphenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]-äthen. Sm. 155°. HCl, (2HCl, PtCl<sub>4</sub>, (HCl, AuCl<sub>3</sub>) (*B.* 35, 418 *C.* 1902 [1] 669).
- 11) Phenacylnaphtalimidin. Sm. 163° (*M.* 22, 835; *M.* 23, 836 *C.* 1902 [2] 1471).
- 12) Verbindung (aus Phenacylnaphtalimidin). Sm. 212° (*M.* 22, 837; *M.* 23, 836 *C.* 1902 [2] 1471).
- $C_{20}H_{15}O_2N_2$  1) Chuchuarin (*C.* 1901 [2] 734).
- $C_{20}H_{15}O_3N_3$  13) Laktone d. 1-[ $\gamma$ -Oximido- $\alpha$ -Oxy- $\gamma$ -Phenylpropyl]naphtalin-8-Carbonsäure. Sm. 123° (*M.* 22, 821).
- 14) Diphenylmonamid d. Oxalsäuremonophenylester. Sm. 129° (*B.* 35, 3440 *C.* 1902 [2] 1303).
- 15) 1-Aethoxyl-2-Naphtylimid d. Benzol-1,2-Dicarbonsäure. Sm. 189° (*J. pr.* [2] 63, 80).
- $C_{20}H_{15}O_3N_3$  7)  $\beta$ -[4-Nitrophenylhydrazon]- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan. Sm. 192 bis 193° (*B.* 35, 3521 *C.* 1902 [2] 1324).
- 8) Oxim d. Verbindung  $C_{20}H_{14}O_3N_2$ . Sm. 179—180° u. Zers. (*B.* 33, 968). — \*II, 815.
- $C_{20}H_{16}O_4N$  \*1) Sanguinarin. +  $\frac{1}{2}C_2H_6O$  (Sm. 211°) (*C.* 1901 [2] 781).
- $C_{20}H_{15}O_3N_3$  4) Benzozat d. 3'-Nitro-4'-Oxy-2-Methylazobenzol. Sm. 118° (*Soc.* 79, 157).
- 5) Benzozat d. 3'-Nitro-4'-Oxy-4-Methylazobenzol. Sm. 129° (*Soc.* 79, 159).
- $C_{20}H_{15}O_4P$  \*1) 2,2'-Dinaphtylester d. Phosphorsäure. Sm. 141—142° (*B.* 35, 3448 *C.* 1902 [2] 1303).
- $C_{20}H_{15}O_5N$  2)  $\beta$ -Nitro-4-Oxytriphenylessigsäure. Sm. 177—178° (*B.* 34, 3068).
- $C_{20}H_{15}O_5As$  1) Triphenylarsinoxyd-4,4'-Dicarbonsäure. Sm. noch nicht bei 300°. Ba, Cu + H<sub>2</sub>O, Ag<sub>2</sub> (*A.* 321, 196 *C.* 1902 [2] 46).
- $C_{20}H_{15}NS$  2) Benzyläther d. 5-Merkaptoakridin. Sm. 109°. HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (*J. pr.* [2] 64, 478 *C.* 1902 [1] 125).
- $C_{20}H_{15}N_3S$  \*2) Verbindung (aus  $\beta$ -Phenylamido- $\alpha$ -Phenylthioharnstoff). Sm. 314—315° u. Zers. (*B.* 34, 333).
- 3) 2-Phenylimido-3,5-Diphenyl-2,3-Dihydro-1,3,4-Thiadiazol. Sm. 184—185° (*B.* 34, 332).
- $C_{20}H_{16}ON_4$  \*1) Formazylphenylketon. Sm. 141—142°. Na, Ag (*J. pr.* [2] 65, 143 *C.* 1902 [1] 1002).
- $C_{20}H_{16}O_2N_2$  \*30) Benzoyl-s-Diphenylharnstoff. Sm. 129° (*J. pr.* [2] 64, 262).
- 32) Oxim d. Phenacylnaphtalimidin. Sm. 208° (*M.* 22, 839).
- 33) Phenylamid d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 270 bis 272° (*B.* 35, 3484 *C.* 1902 [2] 1318).
- $C_{20}H_{16}O_2N_4$  6) 1,5-Di[Acetylamido]- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1232).
- $C_{20}H_{16}O_3N_2$  10) Verbindung (aus d. Naphtalidmethylphenylketonoxim). Sm. 165° (*M.* 22, 823).
- $C_{20}H_{16}O_3N_4$  C 66,7 — H 4,4 — O 13,3 — N 15,6 — M. G. 360.
- 1) N-4-Phenylhydrazonmethyl-4-Nitrobenzaldoxim. Sm. 222° (*Am.* 28, 44 *C.* 1902 [2] 701).

- $C_{20}H_{16}O_4N_2$  \*3)  $\alpha\alpha$ -Diacetylingeweiß. Sm. 215—230° u. Zers. (B. 34, 1858; D.R.P. 126799 C. 1902 [1] 82).
- 18) Benzot d.  $\beta$ -Oxy- $\beta$ -[4-Nitrophenyl]- $\alpha$ -[2-Pyridyl]äthan. Sm. 192 bis 193° (B. 35, 1163 C. 1902 [1] 1015).
- $C_{20}H_{16}O_4N_4$  2)  $\alpha$ -Phenyl- $\alpha$ -Benzyl- $\beta$ -[2,4-Dinitrobenzyliden]hydrazin. Sm. 155 bis 156° (B. 35, 1232 C. 1902 [1] 1000).
- $C_{20}H_{16}O_4N_6$  \*1) Dimethylester d. lab. 4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 270°.  $Na_2$  (Bl. [3] 27, 114 C. 1902 [1] 722).
- 2) 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 243—244° (Bl. [3] 27, 121 C. 1902 [1] 722).
- 3) Dimethylester d. stab. 4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 228—230° (Bl. [3] 27, 114 C. 1902 [1] 722).
- $C_{20}H_{16}O_5N_2$  C 65,9 — H 4,4 — O 22,0 — N 7,7 — M. G. 364.
- 1) 5-[3-Oxyphenyl]äther d. 9-Dimethylamido-2,3,5-Trioxyphenoxazin (C. 1902 [1] 940).
- $C_{20}H_{16}O_5N_2$  C 58,2 — H 3,9 — O 31,1 — N 6,8 — M. G. 412.
- 1) 1,4-Phenylenamid d. 3,4,5-Trioxybenzol-1-Carbonsäure. Sm. noch nicht bei 250° (J. pr. [2] 63, 82).
- $C_{20}H_{16}NJ_3$  1) Dijodid d. 5-Phenylakridinjodmethylat. Sm. 148—150°. +  $CHCl_3$  (B. 35, 3078 C. 1902 [2] 1129).
- $C_{20}H_{16}N_2S_2$  7) p-Toluthiochinanthren. Sm. 316°. 2 HCl, 2 HBr, 4  $HNO_3$ , 2  $H_2SO_4$  + 2  $H_2O$ , 2 Pikrat (B. 35, 97 C. 1902 [1] 417; J. pr. [2] 66, 216 C. 1902 [2] 1130).
- $C_{20}H_{16}N_4S$  \*1) 2-Phenylimido-5-Phenylamido-3-Phenyl-2,3-Dihydro-1,3,4-Thio-diazol. Sm. 155—156° (B. 34, 344).
- 2) 3-Phenylamido-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 179° (B. 34, 345).
- 3) 3-Phenylamido-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 180° (J. pr. [2] 64, 271).
- $C_{20}H_{15}N_4S_2$  2) 4-Amidophenyläther d. 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 175°. HCl (B. 34, 311).
- $C_{20}H_{17}ON$  \*11) Phenylbenzylamid d. Benzolcarbonsäure. Sm. 107—108° (A. 318, 87).
- \*15) 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Sm. 140° (B. 35, 3068 C. 1902 [2] 1128).
- 16) 3-Cinnamoyl-2-Methyl-4-Phenylpyrazol. Sm. 167° (B. 35, 3005 C. 1902 [2] 1121).
- 17) Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 129°. HCl, (2 HCl,  $TiCl_3$ ), (HCl,  $HgCl_2$ ), (2 HCl,  $PtCl_4$ ), HBr (B. 35, 2784 C. 1902 [2] 993).
- 18) Diphenylmethylamid d. Benzolcarbonsäure. Sm. 166—167° (Am. 26, 354).
- $C_{20}H_{17}ON_3$  \*7) Phenylamid d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylamidoessigsäure. Sm. 142° (Soc. 79, 700).
- \*8)  $\alpha$ -Phenyl- $\beta$ -[ $\alpha$ -Phenylamidobenzyliden]harnstoff. Sm. 179—180° (C. 1901 [2] 198).
- 9) 4-Oxy-5-Phenylimidomethyl-3-Methylazobenzol. Sm. 77—78° (B. 34, 2100).
- $C_{20}H_{17}O_2N$  11) Benzylester d. Diphenylamidoameisensäure. Sm. 111° (B. 34, 2281 Ann.).
- 12) Phenylamid d.  $\alpha$ -Oxydiphenylessigsäure. Sm. 174—175° (Bl. [3] 27, 874 C. 1902 [2] 935).
- 13) Phenylamid d. 3-Oxybenzolbenzyläther-1-Carbonsäure. Sm. 112° (D.R.P. 65952). — \*II, 903.
- $C_{20}H_{17}O_2N_3$  12) 4-Vanillylidenamidoazobenzol. Sm. 157° (B. 35, 1433 C. 1902 [1] 1162).
- 13) 4-Phenylazobenzol-4'-Amidoessigsäure (B. 35, 582 C. 1902 [1] 581).
- 14) Phenylhydrazid d. 2-Benzoylamidobenzol-1-Carbonsäure. Sm. 195° (B. 35, 3485 C. 1902 [2] 1318).
- $C_{20}H_{17}O_3N_5$  \*2) Rubazonsäure. Sm. 184° (B. 34, 2738).
- $C_{20}H_{17}O_2As$  1) Anhydrid d. Triphenylarsoniumessigsäure (A. 321, 175 C. 1902 [2] 44).
- $C_{20}H_{17}O_3N_3$  9)  $\alpha$ -Benzyloxyamido- $\alpha$ -[3-Nitrophenyl]imido- $\alpha$ -Phenylmethan. Sm. 171°. Cu, Co, Ni (B. 34, 2630).

- $C_{20}H_{17}O_3As$  1) Diphenyl-4-Methylphenylarsinoxid-4'-Carbonsäure. Sm. noch nicht bei 300°. Ag (A. 321, 198 C. 1902 [2] 46).
- $C_{20}H_{17}O_4N$  \* 1) Berberin.  $HCl + 2H_2O$  (C. 1901 [2] 1229; Ar. 239, 648 C. 1902 [1] 265; Ar. 239, 638 C. 1902 [1] 226; Soc. 81, 157 C. 1902 [1] 358; Ar. 240, 146 C. 1902 [1] 822).
- 12) Acetat d.  $\beta$ -Diacetylamido-3-Oxyphenanthren. Sm. 169—170° (C. 321, 298 C. 1902 [2] 58).
- $C_{20}H_{17}O_5N$  \* 1) Protopin (oder  $C_{20}H_{19}O_5N$ ). Sm. 204—205° (B. 35, 18 C. 1902 [1] 431).
- $C_{20}H_{17}O_5N_3$  2) 4-Oxyphenylidi[4-Nitrobenzyl]amin (D. R. P. 135335 C. 1902 [2] 1166).
- $C_{20}H_{17}NBr_2$  1)  $\alpha\beta$ -Dibrom- $\alpha$ [4-Methylphenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthan. Sm. 173° (B. 35, 2778 C. 1902 [2] 993).
- $C_{20}H_{17}NS$  1) 5-Merkapto-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Sm. 105 bis 109° (B. 35, 880 C. 1902 [1] 865).
- $C_{20}H_{17}N_3S$  4)  $\alpha$ -Benzylidenamido- $\alpha\beta$ -Diphenylthioharnstoff. Sm. 167—168° (B. 34, 331).
- 5)  $\alpha$ -Phenyl- $\beta$ -[ $\alpha$ -Phenylamidobenzyliden]thioharnstoff. Sm. 138° (C. 1901 [2] 198).
- $C_{20}H_{18}ON_2$  \* 17)  $\alpha$ -Benzyloxyamido- $\alpha$ -Phenylimido- $\alpha$ -Phenylmethan. Sm. 150°.  $HCl$ ,  $Co$ ,  $Hg$ ,  $Hg +$  Quecksilberacetat (B. 34, 2625).
- 24)  $\alpha$ -Phenylhydrazon-2'-Oxy-4-Methyldiphenylmethan. Sm. 145° (B. 35, 2813 C. 1902 [2] 1117).
- 25) 2-Oxy-1',2',3',4'-Tetrahydro-1,6'-Azonaphtalin. Sm. 153° (Soc. 81, 903 C. 1902 [2] 214).
- $C_{20}H_{18}ON_4$  10) 4-Oxy-5-Phenylhydrazonmethyl-2-Methylazobenzol. Sm. 123 bis 125° (B. 34, 2104).
- 11) 4-Oxy-5-Phenylhydrazonmethyl-3-Methylazobenzol. Sm. 147 bis 148° (B. 34, 2100).
- 12)  $\alpha$ -[3-Methylphenyl]azo- $\alpha\beta$ -Diphenylharnstoff. Sm. 116° u. Zers. (J. pr. [2] 65, 405 C. 1902 [2] 35).
- $C_{20}H_{18}OBr_2$  1) Dibromoktohydro- $\alpha$ -Binaphtylenoxyd. Sm. 251° (M. 23, 834 C. 1902 [2] 1469).
- $C_{20}H_{18}O_2N_2$  17) 5-Aethyläther-2-[1-Naphtyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 190°. Pikrat (J. pr. [2] 63, 191).
- 18) 5-Aethyläther-2-[2-Naphtyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 163—165°.  $HCl$ , Pikrat (J. pr. [2] 63, 191).
- 19) 4,6,4',6'-Tetramethylindigo (Am. 27, 12 C. 1902 [1] 477).
- $C_{20}H_{18}O_2N_4$  16)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha$ -[3,4-Dioxyphenyl]äthan. Sm. 153° (B. 34, 93).
- $C_{20}H_{18}O_2Si$  \* 1) Acetat d. Siliciumtriphenyloxydhydrat. Sm. 91,5° (Soc. 79, 454).
- $C_{20}H_{18}O_3N_4$  6) 2-Methyläther d. 2,4,6-Trioxy-3,5-Di[Phenylazo]-1-Methylbenzol. Sm. 204° (A. 318, 251).
- 7) Monoäthyläther d. 1,3,5-Trioxy-2,4-Di[Phenylazo]benzol. Sm. 212—214° (Soc. 81, 472 C. 1902 [1] 1014).
- 8)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha$ -[2,3,4-Trioxyphenyl]äthan. Sm. 235° (B. 34, 95).
- 9) Filicinsäuredisazobenzol. Sm. 209° (A. 318, 242).
- $C_{20}H_{18}O_4N_2$  7) Aethylester d. Dianhydrodiacetylanthranihsäure. Sm. 227—228° (B. 35, 3467 C. 1902 [2] 1315).
- $C_{20}H_{18}O_4S_2$  2) 1,3-Di[Benzylsulfon]benzol. Sm. 240° (B. 35, 1399 C. 1902 [1] 1097).
- $C_{20}H_{18}O_4S_3$  1) 1,3-Phenyleneester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 80—81° (B. 34, 2997).
- $C_{20}H_{18}O_5N_4$  C 54,3 — H 4,1 — O 28,9 — N 12,7 — M. G. 442.
- 1) 3,3'-Dimethylbiphenylen-4,4'-Di[Hydrazonmalonsäure]. Zers. bei 195—200° (B. [3] 27, 320 C. 1902 [1] 1205).
- $C_{20}H_{18}NJ$  1) Jodmethylat d.  $\alpha$ -Phenylimidodiphenylmethan. Sm. 202° (B. 35, 2617 C. 1902 [2] 593).
- $C_{20}H_{18}N_2S$  \* 1)  $\alpha$ -Phenyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 178° (Am. 26, 356).
- $C_{20}H_{18}N_2S_2$  1) 4'-[ $\beta$ -Phenylthioureido]-4-Methyldisulfid. Sm. 161° (J. pr. [2] 63, 182).
- $C_{20}H_{18}ClP$  1) 4-Chlorphenylidi[4-Methylphenyl]phosphin. Sm. 115° (A. 315, 93).
- $C_{20}H_{18}ON_3$  9) 2-Acetylamido-1,4-Di[Phenylamido]benzol. Sm. 170—171° (B. 34, 1274).
- $C_{20}H_{19}OAs$  1) Phenylidi[4-Methylphenyl]arsinoxid. Sm. 81° (A. 321, 194 C. 1902 [2] 46).

- C<sub>20</sub>H<sub>19</sub>O<sub>2</sub>N** 3) Aethylester d. 2-Methyl-4,5-Diphenylpyrrol-3-Carbonsäure. Sm. 202° (*B.* 35, 1559 *C.* 1902 [1] 1228; *B.* 35, 3005 *C.* 1902 [2] 1121).  
 4) 1-Naphtylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 148°; *Sd.* 260°<sub>15</sub> (*B.* 34, 1851).  
 5) 2-Naphtylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 117° (*B.* 34, 1852).  
 6) 1-Naphtylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 98° (*B.* 34, 1851).  
 7) 2-Naphtylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 157,5° (*B.* 34, 1853).
- C<sub>20</sub>H<sub>19</sub>O<sub>2</sub>P** 1) Phenylester d. Benzyl-4-Methylphenylphosphinsäure. Sm. 120° (*A.* 315, 70).
- C<sub>20</sub>H<sub>19</sub>O<sub>2</sub>As** 1) Dibenzylester d. Phenylarsinogensäure. *Sd.* 296°<sub>30</sub> (*A.* 320, 289 *C.* 1902 [1] 919).  
 2) Di[4-Methylphenylester] d. Phenylarsinogensäure. *Sd.* 285°<sub>12</sub> (*A.* 320, 288 *C.* 1902 [1] 919).
- C<sub>20</sub>H<sub>19</sub>O<sub>3</sub>N** 6) 4-Aethoxyphenylamid d. Oxyessig-1-Naphtyläthersäure. Sm. 145 bis 146° (*D.R.P.* 83538). — \*II, 504.  
 7) 4-Aethoxyphenylamid d. Oxyessig-2-Naphtyläthersäure. Sm. 164 bis 165° (*D.R.P.* 83538). — \*II, 504.
- C<sub>20</sub>H<sub>19</sub>O<sub>3</sub>As** 1) Triphenylarsoniumessigsäure (Triphenylarsenbetain). Sm. 125° (*A.* 321, 175 *C.* 1902 [2] 44).
- C<sub>20</sub>H<sub>19</sub>O<sub>4</sub>N** \*3)  $\alpha\gamma$ -Phenylimid d.  $\beta$ -Phenylpropan- $\alpha\alpha\gamma$ -Tricarbonsäure- $\alpha$ -Aethylester. Sm. 166° (*A.* 320, 95).
- C<sub>20</sub>H<sub>19</sub>O<sub>5</sub>N** \*3) Chelidonin + H<sub>2</sub>O. Sm. 136°, HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>), HNO<sub>3</sub>, HJ, (HJ, J<sub>3</sub>), (HJ, J<sub>3</sub>), H<sub>3</sub>PO<sub>4</sub> (*C.* 1901 [2] 783; *B.* 35, 12 *C.* 1902 [1] 430).  
 \*4) Protopin. Sm. 207° (201—202°). HCl, (2HCl, PtCl<sub>4</sub> + 2H<sub>2</sub>O), (HCl, AuCl<sub>3</sub>) (*C.* 1901 [2] 781, 782, 783, 814).  
 5) Berberinal. Sm. 144° (*C.* 1902 [1] 1063).  
 6) Berberiniumhydroxyd (*C.* 1902 [1] 1063).  
 7) Dimethylester d. 5-Keto-1,3-Diphenyltetrahydropyrrol-2,2-Dicarbonsäure. Sm. 130° (*B.* 35, 520 *C.* 1902 [1] 658).  
 C 63,0 — H 5,0 — O 21,0 — N 11,0 — M. G. 381.
- C<sub>20</sub>H<sub>19</sub>O<sub>5</sub>N<sub>3</sub>** 1) Dibenzoylderivat d. Verb. C<sub>6</sub>H<sub>11</sub>O<sub>3</sub>N<sub>3</sub>. Sm. 265—266° (*B.* 35, 2899 *C.* 1902 [2] 1053).  
 C 65,0 — H 5,1 — O 26,0 — N 3,8 — M. G. 369.
- C<sub>20</sub>H<sub>19</sub>O<sub>6</sub>N** 1) Oxyberberin (*C.* 1902 [1] 1063).  
 2) Oxychelidonin + H<sub>2</sub>O. Sm. noch nicht bei 250° (*C.* 1901 [2] 783).
- C<sub>20</sub>H<sub>19</sub>O<sub>6</sub>N** 3) Acetat d.  $\alpha$ -Usninsäureoxim. Sm. 200° u. Zers. (*A.* 324, 161 *C.* 1902 [2] 1511).  
 4) Acetat d. 1-Usninsäureoxim. Sm. 200° u. Zer. (*A.* 324, 161 *C.* 1902 [2] 1511).
- C<sub>20</sub>H<sub>19</sub>O<sub>6</sub>N** 3) Oxim d. Cetrarsäure (*Ar.* 240, 545 *C.* 1902 [2] 1320).
- C<sub>20</sub>H<sub>19</sub>NBr<sub>2</sub>** 1)  $\alpha\beta$ -Dibrom- $\alpha$ -[4-Isopropylphenyl]- $\beta$ -[2-Chinolyl]äthan. Sm. 151° (*B.* 35, 1957 *C.* 1902 [2] 130).
- C<sub>20</sub>H<sub>19</sub>N<sub>3</sub>Cl** 2) Chlormethylat d. 3'-Dimethylamido-1,2-Naptakridin (*B.* 34, 4321 *C.* 1902 [1] 324).
- C<sub>20</sub>H<sub>19</sub>O<sub>3</sub>S** 3)  $\alpha$ -Amido- $\alpha$ -Phenyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 178° (*Am.* 26, 356).
- C<sub>20</sub>H<sub>19</sub>Cl<sub>2</sub>As** 1) Phenyl-di[4-Methylphenyl]arsindichlorid. Sm. 186—194° (*A.* 321, 193 *C.* 1902 [2] 46).
- C<sub>20</sub>H<sub>19</sub>SA<sub>3</sub>** 1) Phenyl-di[4-Methylphenyl]arsinsulfid. Sm. 144° (*A.* 321, 195 *C.* 1902 [2] 46).
- C<sub>20</sub>H<sub>20</sub>ON<sub>2</sub>** 9) 1-[4-Oxy-2-Methyl-5-Isopropylphenylazo]naphtalin. Sm. 117,5° (*Am.* 25, 493).  
 10) Aethyläther d. 5-Amido-4-Oxy-2-[4-Amidophenyl]-1-Phenylbenzol (*D.R.P.* 58295). — \*II, 543.  
 11) 4-Methyl-2-[2-Isobutyrylamidophenyl]chinolin. Sm. 117° (*C.* 1901 [2] 1228).  
 12) Methyloxydhydrat d. 3'-Dimethylamido-1,2-Naptakridin. Chlorid, Bichromat (*B.* 34, 4321 *C.* 1902 [1] 324).
- C<sub>20</sub>H<sub>20</sub>O<sub>4</sub>N<sub>6</sub>** 2) Aethylenamid d.  $\alpha\gamma$ -Dicyan- $\beta\beta$ -Dimethylpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 287—290° u. Zers. (*C.* 1901 [1] 578).



- $C_{20}H_{20}O_6N_2$  14) Diäthylester d.  $\alpha,\beta$ -Di[2-Pyridoyl]bernsteinsäure. Sm. 137° (2HCl,  $PICl_4$ ) (B. 34, 4239 C. 1902 [1] 208).
- 15) Diäthylester d.  $\alpha,\beta$ -Di[4-Pyridoyl]bernsteinsäure. Sm. 197° (B. 34, 4250 C. 1902 [1] 209).
- $C_{20}H_{20}O_7N_2$  3) Diacetylleukoprune. Sm. 165° (C. 1902 [1] 940).
- $C_{20}H_{20}NP$  2) 4-Methylphenylamidophenyl-4-Methylphenylphosphin. Sm. 142° (A. 315, 62).
- $C_{20}H_{20}ClAs$  1) Äthyltriphenylarsoniumchlorid.  $2 + PCl_4$  (A. 321, 170 C. 1902 [2] 44).
- 2) Methylidiphenyl-4-Methylphenylarsoniumchlorid. Fl.  $2 + PCl_4$  (A. 321, 189 C. 1902 [2] 46).
- $C_{20}H_{20}JAs$  1) Äthyltriphenylarsoniumjodid. Sm. 158° (A. 321, 170 C. 1902 [2] 44).
- 2) Methylidiphenyl-4-Methylphenylarsoniumjodid. Sm. 152° (A. 321, 189 C. 1902 [2] 46).
- $C_{20}H_{21}O_2As$  1) Phenylidi[4-Methylphenyl]oxyarsoniumhydroxyd. Nitrat (A. 321, 195 C. 1902 [2] 46).
- $C_{20}H_{21}O_4N$  \* 1) l-Canadin. Sm. 132—133° (Ar. 239, 657 C. 1902 [1] 265).
- \* 2) i-Canadin (Hydroberberin) (Ar. 239, 657 C. 1902 [1] 265; Soc. 81, 148 C. 1902 [1] 356).
- $C_{20}H_{21}O_5N$  7) d-Canadin. Sm. 139—140° (Ar. 239, 657 C. 1902 [1] 265).
- 2) Dihydroberberin. Sm. 162—164° HCl (C. 1902 [1] 1063).
- 3) Acetylidi[2-Methylphenyl]acetoguanamin. Sm. 191° (B. 34, 2600).
- 4) Diäthylester d. Benzol-1-Carbonsäure-2-Benzoylamidoessigsäure (D. d. Benzoylphenylglycincarbonsäure). Sm. 53—54° (51—52°) (D.R.P. 126962 C. 1902 [1] 82; D.R.P. 127648 C. 1902 [1] 337; B. 35, 1686 C. 1902 [1] 1362).
- $C_{20}H_{21}O_{10}N$  2) Tetramethyläther d. Nitrooxydihydrohämatoxylon. Sm. 204 bis 205° (Soc. 81, 1063 C. 1902 [2] 750).
- $C_{20}H_{23}ON_4$  2) 4-[4-Diäthylamidophenyl]imido-5-Keto-3-Methyl-1-Phenyl-4,5-Dihydropyrazol. Sm. 117° (B. 35, 1438 C. 1902 [1] 1230).
- $C_{20}H_{23}O_2N_2$  19) trans- $\alpha,\gamma$ -Di[Acetylphenylamido]- $\alpha$ -Buten. Sm. 188° (B. 25, 2031; 27, 1303; A. 318, 79).
- 20) 2,5-Diketo-1,4-Di[2,4-Dimethylphenyl]hexahydro-1,4-Diazin (Dim-Xylidiketopiperazin). Sm. 170° (Ann. 27, 13 C. 1902 [1] 477).
- 21) 2,5-Dimethylphenylamid d.  $\alpha$ -[2,5-Dimethylphenyl]amido- $\gamma$ -Keto- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 188° (B. 35, 2510 C. 1902 [2] 438).
- $C_{20}H_{23}O_2N_4$  3) 4,4-Di[ $\beta$ -Keto- $\alpha$ -Methylpropylidenhydrazido]biphenyl. Sm. 283 bis 284° (C. 1901 [1] 299).
- $C_{20}H_{23}O_3S$  1) Sulfon (aus Dicyklopentadien) (C. 1902 [2] 32).
- $C_{20}H_{23}O_5N_2$  3) 5-Äthyläther-2-[2-Methoxyl-4-Allylphenyl]äther d. 5-Oxy-2-Oxy-methylbenzimidazol. Sm. 75—76°. HCl, Pikrat (J. pr. [2] 63, 190).
- 4) Benzoat d.  $\delta$ -Oximido- $\beta$ -Benzoylamido- $\beta$ -Methylpentan. Sm. 121 bis 123° (B. 34, 794; M. 23, 12).
- 5) 2-Methylphenylmonamid d.  $\beta$ -[2-Methylphenyl]amidoäthen- $\alpha,\alpha$ -Dicarbonsäuremonoäthylester. Sm. 141° (B. 35, 2507 C. 1902 [2] 438).
- 6) 4-Methylphenylmonamid d.  $\beta$ -[4-Methylphenyl]amidoäthen- $\alpha,\alpha$ -Dicarbonsäuremonoäthylester. Sm. 187° (B. 35, 2508 C. 1902 [2] 438).
- $C_{20}H_{22}O_3N_4$  1) 2,5-Diketo-4-[ $\delta$ -Phenylureidobutyl]-1-Phenyltetrahydroimidazol. Sm. 183—184° (H. 34, 526 C. 1902 [1] 781).
- 2) Verbindung (aus act.  $\alpha,\epsilon$ -Diamidocapronsäure). Sm. 196° (183—184°) (H. 34, 525; C. 1902 [1] 985; B. 35, 3778 C. 1902 [2] 1414).
- 3) Verbindung (aus i- $\alpha,\epsilon$ -Diamidocapronsäure). Sm. 182—185° (C. 1902 [1] 985; B. 35, 3777 C. 1902 [2] 1414).
- $C_{20}H_{22}O_4N_2$  17) Diäthyläther d.  $\beta$ -Phenylhydrazon- $\alpha,\gamma$ -Diketo- $\alpha$ -[2,4-Dioxyphenyl]-butan. Sm. 102—103° (B. 35, 1682 Ann. C. 1902 [1] 1366).
- 18) Dibenzoyldiäpiehydrinamid. Sm. 229° (J. pr. [2] 55, 92). — \*II, 738.
- 19) i- $\alpha$ -Di[Benzoylamido]capronsäure. Sm. 145—146° (B. 35, 3776 C. 1902 [2] 1414).
- 20) Dimethylester d.  $\alpha$ -Phenylimido- $\alpha$ -Phenylamidobutan- $\alpha^2\gamma^2$ -Dicarbonsäure. Sm. 146° (J. pr. [2] 63, 261).

- $C_{20}H_{22}O_4N_4$  7) Di[ $\alpha$ -Acetyl- $\beta$ -Phenylhydrazid] d. Bernsteinsäure. Sm. 197° (B. 35, 3690 (C. 1902 [2] 1451).
- $C_{20}H_{22}O_5N_2$  3) Di[Phenylamidoformiat] d.  $\epsilon$ - $\zeta$ -Dioxy- $\beta$ -Ketohehexan. Sm. 136° (B. 34, 1982).
- $C_{20}H_{22}O_5N_4$  4) 4-Methoxyphenylamid d.  $\beta$ -[4-Methoxyphenyl]amidoäthen- $\alpha$ -Dicarbonsäuremonoäthylester. Sm. 130° (B. 35, 2508 C. 1902 [2] 438).
- 2) Äthylester d.  $\delta$ -Phenylazo- $\gamma$ -Methylamido- $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]-butan- $\delta$ -Carbonsäure. Sm. 123—125° (B. 34, 3605; B. 35, 1863 C. 1902 [2] 41).
- $C_{20}H_{22}O_6N_6$  C 54,3 — H 5,0 — O 21,7 — N 19,0 — M. G. 442.
- 1) Dinitroderivat d. Verb.  $C_{20}H_{24}O_8N_4$ . Sm. 201—202° (B. 34, 2039).
- 2) isom. Dinitroderivat d. Verb.  $C_{20}H_{24}O_8N_4$ . Sm. 225° (B. 34, 2039).
- $C_{20}H_{23}O_3N$  3) Benzoat d.  $\epsilon$ -Benzoylamido- $\delta$ -Oxy- $\beta$ -Methylpentan. Sm. 128° (C. 1902 [1] 400).
- 4) Benzoat d.  $\delta$ -Benzoylamido- $\epsilon$ -Oxy- $\beta$ -Methylpentan. Sm. 124—125° (C. 1902 [1] 400).
- $C_{20}H_{23}O_3N_3$  6) 10-Methyloxydhydrat d. 2,8-Di[Acetylamido]-3,7-Dimethylakridin. Chlorid, Nitrat, Bichromat, Methylsulfat (B. 34, 4310 C. 1902 [1] 322).
- $C_{20}H_{23}O_4N$  5) 4-Aethoxyphenylamid d. Oxyessig-[2-Methoxyl-4-Allylphenyl]-äthersäure. Sm. 93—94° (D.R.P. 83538). — \*II, 589.
- $C_{20}H_{23}O_6P$  2) Di[ $\alpha$ -Benzoxylisopropyl]unterphosphorigesäure. Sm. 195—196° (C. r. 133, 819 C. 1902 [1] 21).
- $C_{20}H_{24}O_2N_2$  \*18) Chinin. Saccharinat, (HCl,  $TiCl_3 + H_2O$ ) (C. 1902 [2] 953; Bl. [3] 25, 606; Ph. Ch. 41, 1 C. 1902 [2] 181; B. 35, 2772 C. 1902 [2] 980).
- 37)  $\alpha$ -Di[Benzoylamido]- $\beta$ -Methylpentan. Sm. 274° (M. 23, 882 C. 1902 [2] 1446).
- 38) 5-Aethyläther-2-[2-Methyl-5-Isopropylphenyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 124—125°. Pikrat (J. pr. [2] 63, 190).
- 39) 5-Aethyläther-2-[3-Methyl-6-Isopropylphenyl]äther d. 5-Oxy-2-Oxymethylbenzimidazol. Sm. 84—86°. HCl, Pikrat (J. pr. [2] 63, 189).
- $C_{20}H_{24}O_2N_4$  C 68,2 — H 6,8 — O 9,1 — N 15,9 — M. G. 352.
- 1) Verbindung (aus Dimethylamidobenzol u. Knallquecksilber). Sm. 208°. 2HCl, (2HCl,  $HgCl_2$ ), (2HCl,  $PtCl_4$ ), Pikrat (B. 34, 2038).
- $C_{20}H_{24}O_2Cl_2$  1) Dichlordithymol. Sm. oberh. 195° (C. 1902 [2] 1504).
- $C_{20}H_{24}O_2Br_2$  1) Dibromdithymol. Zers. bei 220° (C. 1902 [2] 1504).
- $C_{20}H_{24}O_2S_2$  \*2) Äthylester d.  $\beta$ - $\beta$ -Dimerkaptobutterdibenzyläthersäure. Fl. (B. 34, 2657).
- 3)  $\beta$ - $\beta$ -Dimerkaptio- $\alpha$ -Äthylbutterdibenzyläthersäure. Sm. 86—87° (B. 34, 2667).
- $C_{20}H_{24}O_3N_2$  8) Di[4-Acetylamido-3,5-Dimethylphenyl]äther. Sm. 283° (A. 316, 307).
- $C_{20}H_{24}O_3N_4$  \*2)  $\beta$ -Acetyl- $\alpha$ -Di[2-Acetylamidobenzyl]hydrazin. Sm. 239° (B. 35, 1569 C. 1902 [1] 1207).
- $C_{20}H_{24}O_4S$  1)  $\gamma$ -Amylsulfon- $\alpha$ -Keto- $\alpha$ - $\gamma$ -Diphenylpropan. Sm. 142—143° (B. 35, 809 C. 1902 [1] 756).
- $C_{20}H_{24}O_5S_2$  1)  $\zeta$ -Diphenylsulfon- $\gamma$ -Keto- $\beta$ -Methylheptan. Sm. 117—118° (B. 35, 505 C. 1902 [1] 637).
- 2)  $\delta$ -Dibenzylsulfon- $\beta$ -Keto- $\gamma$ -Methylpentan. Sm. 149—151° (B. 35, 502 C. 1902 [1] 637).
- $C_{20}H_{24}O_6S_2$  2) Äthylester d.  $\beta$ - $\beta$ -Di[Benzylsulfon]buttersäure. Sm. 141—142° (B. 34, 2657).
- $C_{20}H_{26}ON$  3) Methyläther d.  $\alpha$ -[4-Oxyphenyl]- $\beta$ -[2-Phenylhexahydro-2-Pyridyl]-äthan. Fl. HCl (B. 35, 2784 C. 1902 [2] 993).
- $C_{20}H_{25}ON_3$  2) Nitrosoderivat d. Base  $C_{20}H_{26}N_2$  (aus Acetaldehyd u. 4-Amido-1,3-Dimethylbenzol). Sm. unterh. 50° (A. 318, 89).
- $C_{20}H_{25}O_2N$  4) Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]butan. Sm. 119—120° (B. 35, 2259 C. 1902 [2] 275).
- $C_{20}H_{25}O_3N$  4)  $\alpha$ -Phenylamidoformiat d.  $\alpha$ -Oxy- $\alpha$ -[4-Oxyphenyl]propan-4-Isobutyläther. Sm. 57° (B. 35, 2266 C. 1902 [2] 276).
- 5) 4-Aethoxyphenylamid d. Oxyessig-2-Methyl-5-Isopropylphenyläthersäure. Sm. 105—106° (D.R.P. 83538). — \*II, 459.
- 6) 4-Aethoxyphenylamid d. Oxyessig-3-Methyl-6-Isopropylphenyläthersäure. Sm. 129—130° (D.R.P. 83538). — \*II, 464.
- $C_{20}H_{25}O_4N$  \*2) r-Laudanin. Na +  $4H_2O$  (J. pr. [2] 65, 42 C. 1902 [1] 479).

- $C_{20}H_{25}O_4N$  8) Diäthylester d. 2,6-Dimethyl-4-[4-Methylphenyl]-1,4-Dihydro-pyridin-3,5-Dicarbonsäure. Sm. 138° (B. 34, 789).  
C 64,7 — H 6,7 — O 17,2 — N 11,3 — M. G. 371.
- $C_{20}H_{25}O_4N_3$  1) Di[3-Aethoxyphenylamid] d. Imidodiessigsäure. Sm. 130—131° (D. R. P. 59121). — \*II, 396.  
2) Di[4-Aethoxyphenylamid] d. Imidodiessigsäure. Sm. 157° (D. R. P. 59121). — \*II, 403.
- $C_{20}H_{25}O_6N$  4) Diäthylester d.  $\zeta$ -Phtalylamidohehexan- $\alpha\alpha$ -Dicarbonsäure (B. 35, 1368 C. 1902 [1] 1091).
- $C_{20}H_{25}ClJ_2$  1)  $\beta$ -Joddi[4-tert. Butylphenyl]jodoniumchlorid. Sm. 94°. +  $HgCl_2$ , 2 +  $PtCl_4$  (B. 34, 3673).
- $C_{20}H_{25}BrJ_2$  1)  $\beta$ -Joddi[4-tert. Butylphenyl]jodoniumbromid. Sm. 89° u. Zers. (B. 34, 3674).
- $C_{20}H_{26}ON_2$  5) Di[2,4,5-Trimethylbenzyl]nitrosamin. Sm. 85° (B. 34, 555).  
 $C_{20}H_{26}OJ_2$  1)  $\beta$ -Joddi[4-tert. Butylphenyl]jodoniumhydroxyd. Fl. Salze siehe (B. 34, 3673).
- $C_{20}H_{26}O_2N_2$  \*1) Hydrochinin. Sm. 170° (M. 22, 808).  
 $C_{20}H_{26}O_4N_4$  \*1) Di[Methylphenylhydrazon] d. d-Lävlucose (D. d. d-Fruktose). Sm. 153° (158—160°) (B. 35, 960 C. 1902 [1] 860).  
6)  $\alpha\beta$ -Di[ $\beta$ -Nitro-2,4,5-Trimethylphenylamido]äthan. Sm. 97—98° (Soc. 79, 257).  
7) isom.  $\alpha\beta$ -Di[ $\beta$ -Nitro-2,4,5-Trimethylphenylamido]äthan. Sm. 49 bis 50° (Soc. 79, 257).  
8) Di[Methylphenylhydrazon] d. r-Fruktose. Sm. 158° (B. 35, 2631 C. 1902 [2] 576).  
9) Di[Methylphenylhydrazon] d. Sorbose. Fl. (B. 35, 964 C. 1902 [2] 861).  
10) Di[Methylphenylhydrazon] d. i-Tagatose. Sm. 148—150° (B. 35, 2629 C. 1902 [2] 575).
- $C_{20}H_{26}O_4S_2$  2)  $\alpha\beta$ -Di[2,4,5-Trimethylphenylsulfon]äthan. Sm. 241° (J. pr. [2] 66, 136 C. 1902 [2] 796).
- $C_{20}H_{26}N_4S_2$  2) Verbindung (aus Dimethyldithiooxamid, Formaldehyd u. Methylanilin). Sm. 141° (C. 1899 [2] 1025). — \*II, 1025.  
3) Verbindung (aus Formaldehyd, Aethylanilin u. Rubeanwasserstoff). Sm. 107° (C. 1899 [2] 1025). — \*II, 234.
- $C_{20}H_{26}ClJ$  1) Di[4-tert. Butylphenyl]jodoniumchlorid. Sm. 157°. +  $HgCl_2$ , 2 +  $PtCl_4$  (B. 34, 3671).
- $C_{20}H_{26}BrJ$  1) Di[4-tert. Butylphenyl]jodoniumbromid. Sm. 144° (B. 34, 3671).  
 $C_{20}H_{27}OJ$  1) Di[4-tert. Butylphenyl]jodoniumhydroxyd. Salze siehe (B. 34, 3671).  
 $C_{20}H_{27}O_2N$  2) Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. HJ (B. 35, 3225 C. 1902 [2] 1188).
- $C_{20}H_{27}O_{11}N$  \*1) Amygdalin (B. 34, 3810 C. 1902 [1] 128).  
 $C_{20}H_{28}O_5N_2$  \*1) Anhydropseudonitrocampher (Soc. 81, 313 C. 1902 [1] 969).  
3) Aethyläther d. 2,6-Di[Diäcetyl-amido]-3-Oxy-4-Isopropyl-1-Methylbenzol. Sm. 146° (B. 35, 2802 C. 1902 [2] 989).  
C 38,2 — H 4,5 — O 30,6 — N 26,7 — M. G. 628.  
1) Verbindung (aus Dimyreennitrosit) (B. 35, 3263 C. 1902 [2] 1259).  
C 76,2 — H 9,2 — O 10,2 — N 4,4 — M. G. 315.
- $C_{20}H_{29}O_2N$  1) Menthylester d.  $\beta$ -Phenylamidoacetoconsäure. Sm. 85—86° (C. 1902 [2] 208).  
C 64,0 — H 7,7 — O 17,1 — N 11,2 — M. G. 375.
- $C_{20}H_{29}O_4N_3$  1) Menthylester d.  $\beta$ -[4-Nitrophenyl]hydrazidoacetoconsäure. Sm. 105 bis 106° (C. 1902 [2] 208).
- $C_{20}H_{30}O_3S$  1) Schwefelwasserstoffverbindung d. Carvon (B. 34, 1931).  
 $C_{20}H_{30}O_3N_2$  C 69,3 — H 8,7 — O 13,9 — N 8,1 — M. G. 346.  
1) Dicamphorylnitrosamin. Sm. 190° (B. 35, 3664 C. 1902 [2] 1464).  
C 54,3 — H 6,8 — O 32,6 — N 6,3 — M. G. 442.
- $C_{20}H_{30}O_9N_2$  1) Verbindung (aus  $\beta$ -Amidoacetoconsäureäthylester u. Dioxobersteinsäure-diäthylester). Sm. 149,5° (B. 35, 1560 C. 1902 [1] 1229).  
C 41,5 — H 5,2 — O 38,7 — N 14,5 — M. G. 578.
- $C_{20}H_{30}O_{14}N_6$  1) Dimyreennitrosit. Zers. bei 163° (B. 35, 3263, 3264 C. 1902 [2] 1259).  
C 39,3 — H 4,9 — O 41,9 — N 13,8 — M. G. 610.
- $C_{20}H_{30}O_{16}N_6$  1) Nitrosit b d. Parakautschuk. Zers. bei 130° (B. 35, 3261 C. 1902 [2] 1258).
- $C_{20}H_{30}N_3J_3$  1) Trijodmethylat d. Auramin. Sm. 165° (B. 35, 2618 C. 1902 [2] 593).

- $C_{20}H_{31}O_3N$  2) Dicamphorylamin. Sm. 181—182° u. Zers. HCl,  $H_2SO_4$ , Pikrat (B. 35, 3662 C. 1902 [2] 1464).  
C 42,5 — H 5,5 — O 39,6 — N 12,4 — M. G. 565.
- $C_{20}H_{31}O_{14}N_5$  1) Verbindung (aus d. Nitrosit  $C_{20}H_{30}O_{16}N_6$ ) (B. 35, 3262 C. 1902 [2] 1258).
- $C_{20}H_{32}OS_2$  1) Diamyläther d.  $\gamma\gamma$ -Dimerkapto- $\alpha$ -Keto- $\alpha$ -Phenylbutan (B. 35, 503 C. 1902 [1] 637).
- $C_{20}H_{32}O_5S_2$  1)  $\gamma\gamma$ -Diamylsulfon- $\alpha$ -Keto- $\alpha$ -Phenylbutan. Fl. (B. 35, 503 C. 1902 [1] 637).
- $C_{20}H_{33}N_3Cl_2$  1) Äthylen-o-Xylylendipiperidylumchlorid. +  $PtCl_4$ , 2 +  $AuCl_3$  (B. 35, 3054 C. 1902 [2] 1127).  
2) Äthylen-m-Xylylendipiperidylumchlorid. +  $PtCl_4$ , + 2  $AuCl_3$  (B. 35, 3054 C. 1902 [2] 1127).  
3) Äthylen-p-Xylylendipiperidylumchlorid. +  $PtCl_4$ , + 2  $AuCl_3$  (B. 35, 3054 C. 1902 [2] 1127).
- $C_{20}H_{32}N_2Br_2$  1) Äthylen-o-Xylylendipiperidylumbromid (B. 35, 3053 C. 1902 [2] 1127).
- $C_{20}H_{34}O_2S$  1) Schwefelwasserstoffverbindung d. d-4-Keto-2-Isopropyl-5-Methyl-1,2,3,4-Tetrahydrobenzol. Sm. 222—225° (B. 34, 1930).
- $C_{20}H_{34}O_3Hg$  1) Quecksilberdicineolyl (B. 35, 3176 C. 1902 [2] 1203).
- $C_{20}H_{35}O_2N$  C 74,8 — H 10,9 — O 10,0 — N 4,3 — M. G. 321.  
1) Diborneolamin. Sm. 197° (B. 35, 3665 C. 1902 [2] 1464).
- $C_{20}H_{35}N_2Cl$  \*1) Verbindung (aus Iso-l-Menthonoxim) (A. 324, 305 C. 1902 [2] 1507).
- $C_{20}H_{36}O_3N_2$  2) Harnstoff (aus  $\alpha$ -Dihydrocampholensäureamid). Sm. 119° (Bl. [3] 27, 74).
- $C_{20}H_{38}ON_2$  \*2) Verbindung (aus l-Menthonmenthylhydrazon). Sm. 84,5° (J. pr. [2] 64, 122).
- $C_{20}H_{38}O_2N_2$  C 71,0 — H 11,2 — O 9,5 — N 8,3 — M. G. 338.  
1) Oxamid d. 5-Amidomethyl-1,1,2-Trimethyl-R-Pentamethylen. Sm. 147—148° (Bl. [3] 27, 74 C. 1902 [1] 585).
- $C_{20}H_{38}N_2Cl_2$  2) Dichloräthylat d. 1,4-Di[Diäthylamidomethyl]benzol. 2 +  $PtCl_4$ , 2 +  $AuCl_3$  (B. 34, 2087).
- $C_{20}H_{38}N_2Br_2$  2) Dibromäthylat d. 1,4-Di[Diäthylamidomethyl]benzol. Sm. 230°. Tetrabromid (B. 34, 2087).
- $C_{20}H_{39}OCl$  \*1) Chlorid d. Arachinsäure. Sm. 65° (M. 22, 419).
- 20 IV —
- $C_{20}H_8O_8N_2Br_2$  \*1) 4,5-Dibrom-2,7-Dinitrofluorescein. Sm. noch nicht bei 310°.  $Na_2$  (Soc. 81, 898 C. 1902 [2] 214, 450).  
2) 2,7-Dibrom-4,5-Dinitrofluorescein. Sm. noch nicht bei 310°.  $Na_2$  +  $2H_2O$  (Soc. 81, 895 C. 1902 [2] 213, 450).
- $C_{20}H_{10}O_{10}N_2Br_2$  1) Hydrat d. 2,7-Dibrom-4,5-Dinitrofluorescein (Soc. 81, 895 C. 1902 [2] 213).
- $C_{20}H_{11}ONS$  1) Dinaphtazthion. Sm. 245° (A. 322, 56 C. 1902 [2] 224).
- $C_{20}H_{12}O_3N_2S$  1) Biphenylenchinoxalinsulfonsäure. K (A. 321, 351 C. 1902 [2] 61).
- $C_{20}H_{12}O_6NCl$  1) Dibenzoat d. 4-Chlor-2-Nitro-1,3-Dioxybenzol. Sm. 130° (Soc. 81, 1000 C. 1902 [2] 698).
- $C_{20}H_{13}ONS$  1)  $\alpha$ -Dinaphtazthioniumhydroxyd. Pikrat (A. 322, 51 C. 1902 [2] 224).  
2)  $\beta$ -Naphtazthioniumhydroxyd. Pikrat (A. 322, 50 C. 1902 [2] 224).  
3) Benzoat d. 5-Merkaptoakridin. Sm. 209°. Pikrat (J. pr. [2] 64, 477 C. 1902 [1] 125).
- $C_{20}H_{13}ON_2Cl$  2) 1'-Chlor-2-Oxy-1,2'-Azonaphtalin. Sm. 234° (Soc. 81, 1381 C. 1902 [2] 1189).
- $C_{20}H_{15}O_5N_3S$  1) 1-Phenylamidoazo-9,10-Anthrachinon-2-Sulfonsäure (B. 35, 2599 C. 1902 [2] 595).
- $C_{20}H_{15}O_6Br,S$  1) Tribromphenol-p-Methylsulfurein (Am. 16, 514). — \*II, 699.
- $C_{20}H_{14}O_2N_2Br$  1) Methylenäther d.  $\alpha$ - oder  $\beta$ -Brom- $\alpha$ -[3,4-Dioxyphenyl]- $\beta$ -[6-Phenyl-2-Pyridyl]äthen. Sm. 117° (B. 35, 418 C. 1902 [1] 669).
- $C_{20}H_{14}O_3N_2Cl_2$  2) 2,5-Dichlor-1,3-Di[Benzoylamido]benzol. Sm. 220° (Soc. 81, 1383 C. 1902 [2] 1189).
- $C_{20}H_{14}O_2N_2Br_2$  1) Benzoat d. p-Dibrom-4'-Oxy-2-Methylazobenzol. Sm. 168° (Soc. 79, 1091).  
2) Benzoat d. p-Dibrom-4'-Oxy-3-Methylazobenzol. Sm. 141° (Soc. 79, 1092).

- $C_{20}H_{14}O_2N_2Br_2$  3) Benzoat d. *p*-Dibrom-4'-Oxy-4-Methylazobenzol. Sm. 114° (*Soc.* 79, 1093).
- $C_{20}H_{14}O_2N_4S$  \* 1) Phenylfluoravylsulfon. Sm. oberh. 350° (*A.* 319, 271 *C.* 1902 [1] 359).
- $C_{20}H_{14}O_4N_3S$  8) 1-[2-Oxy-*p*-Phenanthryl]azobenzol-4-Sulfonsäure? (*A.* 321, 309 *C.* 1902 [2] 59).
- 9) 1-[3-Oxy-*p*-Phenanthryl]azobenzol-4-Sulfonsäure?  $Na + H_2O$  (*A.* 321, 295 *C.* 1902 [2] 58).
- $C_{20}H_{14}O_4ClP$  1) 4-Chlortriphenylphosphinoxid-4',4''-Dicarbonsäure.  $Ag_2$  (*A.* 315, 97).
- $C_{20}H_{14}O_4N_2S_2$  \* 1) 1,1'-Azoxynaphtalin-5,5'-Disulfonsäure.  $Na_2 + 2H_2O$  (*A.* 321, 66 *C.* 1902 [1] 935).
- 3) *p*-Oxy-1,1'-Azonaphtalin-5,5'-Disulfonsäure.  $(NH_4)_2$  (*A.* 321, 68 *C.* 1902 [1] 935).
- 4) 2-Oxy-1,1'-Azonaphtalin-6,8-Disulfonsäure +  $9H_2O$ .  $Na_2 + 7H_2O$ ,  $Ca + 7H_2O$ ,  $Ba + 7H_2O$ ,  $Fe + 7H_2O$  (*Bl.* [3] 25, 873).
- $C_{20}H_{14}O_7N_4S$  1) 1,4-Di[4-Nitrobenzylidenamido]benzol-1<sup>2</sup>-Sulfonsäure (*D. R. P.* 135335 *C.* 1902 [2] 1167).
- 2) 1-[3-Nitrobenzylidenamido]-4-[4-Nitrobenzyliden]amidobenzol-4<sup>2</sup>-Sulfonsäure (*D. R. P.* 135335 *C.* 1902 [2] 1167).
- $C_{20}H_{14}O_{10}N_4S_2$  1) 1,4-Di[4-Nitrobenzylidenamido]benzol-1<sup>2</sup>,4<sup>2</sup>-Disulfonsäure.  $Na_2$  (*D. R. P.* 135335 *C.* 1902 [2] 1167).
- $C_{20}H_{14}O_{13}N_2S_4$  1) 1,1'-Azoxynaphtalin-3,8,3',8'-Tetrasulfonsäure.  $K_4$  (*A.* 321, 69 *C.* 1902 [1] 936).
- $C_{20}H_{15}O_2NS$  4) Phenylamid d. Phenanthren-3-Sulfonsäure. Sm. 161° (*A.* 321, 268 *C.* 1902 [2] 57).
- 5) Phenylamid d. Phenanthren-9-Sulfonsäure. Sm. 165° (*A.* 321, 272 *C.* 1902 [2] 57).
- $C_{20}H_{15}O_2N_2Cl$  5) 5-Chlor-1,3-Di[Benzoylamido]benzol. Sm. 254—255° (*M.* 22, 121).
- 6) 2-Chlor-1,4-Di[Benzoylamido]benzol. Sm. 228° (*C.* 1902 [1] 752).
- $C_{20}H_{15}O_2N_2Br$  3) Benzoat d. 5-Brom-6-Oxy-3-Methylazobenzol. Sm. 110° (*Soc.* 79, 164).
- 4) Benzoat d. 2'-Brom-6-Oxy-3-Methylazobenzol. Sm. 106,5° (*Soc.* 79, 166).
- 5) Benzoat d. 3'-Brom-6-Oxy-3-Methylazobenzol. Sm. 94° (*Soc.* 79, 166).
- 6) Benzoat d. 4'-Brom-6-Oxy-3-Methylazobenzol. Sm. 112° (*Soc.* 79, 167).
- $C_{20}H_{15}O_5NS_2$  1) Oxyimid d. Naphtalin-1-Sulfonsäure (1-Dinaphtalinsulfohydroxansäure). Sm. 102° (*C.* 1902 [2] 692).
- 2) Oxyimid d. Naphtalin-2-Sulfonsäure. Sm. 115° (*C.* 1902 [2] 692).
- $C_{20}H_{15}O_8NS_2$  \* 1) 5,5'-Dioxy-2,2'-Dinaphtylamin-7,7'-Disulfonsäure (*C.* 1901 [1] 1394).
- 2) 8,8'-Dioxy-2,2'-Dinaphtylamin-6,6'-Disulfonsäure (*C.* 1901 [1] 1394).
- $C_{20}H_{15}O_{12}N_3S_2$  1) *p*-Nitro-1,3-Phenyleneester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 105° (*B.* 34, 2998).
- $C_{20}H_{16}ON_2S$  2) Benzoyl-*s*-Diphenylthioharnstoff. Sm. 115° (*J. pr.* [2] 64, 263).
- 3) 1-(4-[3-Oxyphenyl]amidophenyl)-5-Methylbenzthiazol. Sm. bei 200° (*D. R. P.* 79093). — \* *II*, 483.
- $C_{20}H_{16}O_2N_6S_4$  1) Verbindung (aus Acetylphenyldithiourazol). Sm. 195—208° (*B.* 28, 957). — \* *II*, 202.
- $C_{20}H_{16}O_4N_2S_2$  2)  $\alpha\beta$ -Di[2-Naphtylsulfon]hydrazin. Sm. 215° u. Zers.  $Na_2$  (*J. pr.* [2] 58, 187). — \* *II*, 102.
- $C_{20}H_{16}O_{10}N_2S_2$  1) 1,3-Phenyleneester d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 136° (*B.* 34, 2997).
- $C_{20}H_{16}N_3Br_4S_2$  1) *p*-Toluthiochinanthrentetrbromid.  $2HBr$  (*J. pr.* [2] 66, 224 *C.* 1902 [2] 1131).
- $C_{20}H_{17}O_4NCl_4$  \* 1) Gem. Anhydrid d. Essigsäure u. 3,4,5,6-Tetrachlor-1-[4-Diäthylamidobenzoyl]benzol-2-Carbonsäure. Sm. 175° (*Bl.* [3] 25, 602).
- $C_{20}H_{17}O_6NS_2$  1)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 160—163° (*B.* 35, 2350 *C.* 1902 [2] 517).



- $C_{20}H_{18}ON_2S$  1) Verbindung (aus Phenylbenzenylamidin u. Benzolthiocarbonsäure). Sm. 141—142° (*C.* 1901 [2] 629).
- 2) Verbindung (aus Diphenylformamidin u. Benzolthiocarbonsäure). Sm. 130—131° (*C.* 1901 [2] 629).
- $C_{20}H_{18}OClP$  1) 4-Chlorphenyldi[4-Methylphenyl]phosphinoxyd +  $\frac{1}{2}H_2O$ . Sm. 130° (wasserfrei) (*A.* 315, 94).
- $C_{20}H_{18}O_2ClAs$  1) Triphenylchlorarsoniumessigsäure. Sm. 145° (*A.* 321, 174 *C.* 1902 [2] 44).
- $C_{20}H_{18}O_3NBr$  1) Bromchelidonin. Sm. 230° u. Zers. ( $2HCl$ ,  $PtCl_4 + 3H_2O$ ), ( $HCl$ ,  $AuCl_3$ ) (*C.* 1901 [2] 783).
- $C_{20}H_{18}O_3N_4S_2$  2) 1,2-Phenylenamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 162—163° (*B.* 35, 314 *C.* 1902 [1] 582).
- 3) 1,3-Phenylenamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. 197° (*B.* 34, 3002; *B.* 35, 314 *C.* 1902 [1] 582).
- 4) 1,4-Phenylenamid d. 2-Nitro-1-Methylbenzol-4-Sulfonsäure. Sm. noch nicht bei 250° (*B.* 35, 315 *C.* 1902 [1] 582).
- $C_{20}H_{18}N_2Cl_2S_2$  1) Di[Chlormethylat] d. Thiochinanthren. Sm. 284—285° u. Zers.  $2 + PtCl_4$  (*J. pr.* [2] 54, 343; *B.* 35, 97). — *IV*, 292.
- $C_{20}H_{18}N_3J_2S_2$  1) Di[Jodmethylat] d. Thiochinanthren (*J. pr.* [2] 54, 343; *B.* 35, 97). — *IV*, 292.
- $C_{20}H_{18}ClSP$  1) 4-Chlorphenyldi[4-Methylphenyl]phosphinsulfid. Sm. 149° (*A.* 315, 95).
- $C_{20}H_{18}ClPSe$  1) 4-Chlorphenyldi[4-Methylphenyl]phosphinselenid. Sm. 172° (*A.* 315, 95).
- $C_{20}H_{18}OSP$  1) Phenylester d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 135° (*A.* 315, 69).
- $C_{20}H_{18}O_2N_3S_2$  1) Methyläther d. Phenylimido[ $\alpha$ -Phenyl- $\beta$ -Phenylsulfonhydrazido]merkaptomethan. Sm. 116—118° (*B.* 34, 338).
- 2) Methyläther d. Phenylimido-[ $\beta$ -Phenyl- $\beta$ -Phenylsulfonhydrazido]merkaptomethan. Sm. 146—147° (*B.* 34, 338).
- $C_{20}H_{18}O_3NCl_4$  \* 1) Aethylester d. 3,4,5,6-Tetrachlor-1-[4-Diäthylamidobenzoyl]-benzol-2-Carbonsäure. Sm. 135° (*Bl.* [3] 25, 602).
- $C_{20}H_{18}O_4NS_2$  2)  $\alpha\alpha$ -Di[Phenylsulfon]- $\alpha$ -[3-Amidophenyl]äthan. Sm. 158—160° (*B.* 35, 2354 *C.* 1902 [2] 518).
- 3)  $\alpha$ -[4-Methylphenyl]sulfon- $\gamma$ -[2-Naphtyl]sulfon- $\beta$ -Imidopropan. Sm. 126° (*J. pr.* [2] 55, 411). — \**II*, 528.
- $C_{20}H_{18}O_4N_3S$  1) Verbindung (aus Saccharin u. s-Diphenylamidoharnstoff) (*Bl.* [3] 25, 604).
- $C_{20}H_{18}O_5NS_3$  1) Phenylidibenzylamin- $\beta$ -Trisulfonsäure (D. R. P. 69777). — \**II*, 327.
- $C_{20}H_{20}ON_3Cl$  1) Farbstoff (aus 4-Nitroso-1-Dimethylamidobenzol u. 5-Dimethylamido-1-Oxynaphtalin) (*B.* 35, 979 *C.* 1902 [1] 877).
- $C_{20}H_{20}OClAs$  1)  $\beta$ -Oxyäthyltriphenylarsoniumchlorid. Sm. 215°.  $2 + PtCl_4$  (*A.* 321, 174 *C.* 1902 [2] 44).
- 2) Phenylidi[4-Methylphenyl]oxyarsoniumchlorid. Sm. 142—143° (*A.* 321, 194 *C.* 1902 [2] 46).
- $C_{20}H_{20}OBrAs$  1) Phenylidi[4-Methylphenyl]oxyarsoniumbromid (*A.* 321, 194 *C.* 1902 [2] 46).
- $C_{20}H_{20}OJP$  2) Methyläther d. Methyl-4-Oxytriphenylphosphoniumjodid. Sm. 268—269° (*A.* 315, 98).
- $C_{20}H_{20}O_2N_3Cl$  1) Farbstoff (aus 3-Nitroso-4-Dimethylamido-1-Oxybenzol u. 5-Dimethylamido-1-Oxynaphtalin) (*B.* 35, 980 *C.* 1902 [1] 877).
- $C_{20}H_{20}O_4N_3S_2$  4) 1,2-Phenylenamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 201 bis 202° (*B.* 35, 314 *C.* 1902 [1] 582).
- 5) 1,3-Phenylenamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 172° (*B.* 35, 315 *C.* 1902 [1] 582).
- 6) 1,4-Phenylenamid d. 1-Methylbenzol-4-Sulfonsäure. Sm. oberh. 250° (*B.* 34, 3003).
- $C_{20}H_{20}NSP$  2) Phenylamid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 152° (*A.* 315, 67).
- $C_{20}H_{21}O_3NS$  1) Methyl- $\beta$ -[2-Naphtoxyläthyl]amid d. 1-Methylbenzol-4-Sulfonsäure. Sm. 109,5° (*B.* 34, 3548).
- $C_{20}H_{21}O_3NS_2$  1) Verbindung (aus Benzoyldithioameisensäurebenzylester u.  $\alpha$ -Brompropionsäureäthylester). Sm. 73—74° (*Am.* 26, 201).

- $C_{20}H_{21}N_2SP$  1) Phenylhydrazid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 135,5° (A. 315, 68).
- $C_{20}H_{22}O_2N_3Cl$  1) 10-Chlormethylat d. 2,8-Di[Acetylamido]-3,7-Dimethylakridin (B. 34, 4311 C. 1902 [1] 322).
- $C_{20}H_{22}O_2Cl_2Se$  1) Di[2,4-Dimethylbenzoylmethyl]selenidchlorid (Dichlorselenomethyl-m-Xylolketon). Sm. 128° (A. 314, 292).
- $C_{20}H_{22}O_2Cl_2Te$  1) Di[2,4-Dimethylbenzoylmethyl]telluridchlorid. Sm. 180° (A. 315, 17).
- $C_{20}H_{22}O_2Br_4S$  \*1) Dimethyläther d. Di[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]-sulfid. Sm. 188—189° (B. 34, 4277 C. 1902 [1] 309).
- $C_{20}H_{22}O_2Br_4S_2$  1) Dimethyläther d. Di[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]-disulfid. Sm. 187—188° (B. 34, 4278 C. 1902 [1] 309). — \*II, 691.
- $C_{20}H_{22}O_2N_4S_2$  1) 1,3-Phenylenamid d. 2-Amido-1-Methylbenzol-4-Sulfonsäure 2HCl (B. 34, 3003).
- $C_{20}H_{22}O_4Cl_2Te$  1) Diäthyläther d. Di[4-Oxybenzoylmethyl]telluridchlorid. Sm. 212—213° (A. 315, 16).
- $C_{20}H_{23}O_2N_3J$  1) Jodchinin. Sm. 110° (wasserfrei) (D.R.P. 126796 C. 1902 [1] 80).
- $C_{20}H_{23}O_2NJ$  1) Jodbenzylat d. 1,2,3,4-Tetrahydro-2-Jsochinolylessigsäure-äthylester. Zers. bei 154—155° (B. 34, 3991 C. 1902 [1] 211; B. 35, 1078 C. 1902 [1] 938).
- $C_{20}H_{24}O_2N_2Br_2$  \*1) Dibromdihydrochinin. (HBr, Br<sub>2</sub>), (2HBr, HgBr<sub>2</sub>), 2HNO<sub>3</sub>, (4 + 3H<sub>2</sub>SO<sub>4</sub>, 2HJ, J<sub>4</sub>) (J. pr. [2] 63, 321).
- $C_{20}H_{24}O_2N_2S$  2) Di[2,5-Dimethylphenylamid] d. Thiodiglykolsäure. Sm. 210° (C. 1900 [2] 1269). — \*II, 315.
- $C_{20}H_{24}O_2N_2S_2$  3) Di[Phenylamid] d. Dipropyldisulfid- $\alpha\alpha'$ -Dicarbonsäure. Sm. 110° (J. pr. [2] 66, 192 C. 1902 [2] 933).
- $C_{20}H_{25}ON_2J$  9) Jodmethylat d. Allocinchonin +  $\frac{1}{2}$ H<sub>2</sub>O. Sm. 245°. HJ +  $\frac{1}{2}$ H<sub>2</sub>O (2 isom. Formen) (M. 23, 449 C. 1902 [2] 376).
- 10) Jodmethylat d.  $\alpha$ -Isocinchonin. Sm. 252—253° (M. 22, 1085 C. 1902 [1] 480).
- 11) isom. Jodmethylat d.  $\alpha$ -Isocinchonin. HJ (M. 22, 1085 C. 1902 [1] 480).
- $C_{20}H_{25}O_2N_3J_2$  1) Jodphenin (D.R.P. 58409). — \*II, 401.
- $C_{20}H_{26}O_3NJ$  \*2) Jodmethylat d.  $\beta$ -Methylmorphimethin. Sm. 300° (B. 35, 3010 C. 1902 [2] 1133).
- 7) Jodmethylat d.  $\gamma$ -Methylmorphimethin (Jodmethylat d. Methylisomorphimethin). Sm. 265° u. Zers. (Soc. 79, 578).
- 8) Jodmethylat d.  $\delta$ -Methylmorphimethin. Sm. 282—284° u. Zers. (B. 35, 3011 C. 1902 [2] 1133).
- $C_{20}H_{26}O_4NJ$  1) Jodmethylat d. Corytuberin. Sm. oberh. 250° (Ar. 240, 112 C. 1902 [1] 820).
- $C_{20}H_{26}O_7N_2S_2$  1) Sulfonsäure + H<sub>2</sub>O (aus Chinin) (B. 35, 2991 C. 1902 [2] 1132).
- 2) Sulfonsäure + 4H<sub>2</sub>O (aus Conchinin). Zers. bei 260°. Ag, HCl, HBr (B. 35, 2981 C. 1902 [2] 1132).
- $C_{20}H_{28}O_4N_2S_2$  1)  $\alpha$ -Di[Phenylsulfonamido]oktan. Sm. 123,5° (J. r. 28, 565).
- $C_{20}H_{28}O_5N_2S$  1) Verbindung (aus d. Nitril d.  $\alpha$ -Methylphenylamido- $\alpha$ -Phenylelessigsäure). Zers. bei 243—245° (B. 35, 3360 C. 1902 [2] 1196).
- $C_{20}H_{28}O_5N_2S_2$  1) Sulfonsäure + 4H<sub>2</sub>O (aus d. Säure C<sub>20</sub>H<sub>26</sub>O<sub>7</sub>N<sub>2</sub>S<sub>2</sub>). NH<sub>4</sub> (B. 35, 2989 C. 1902 [2] 1133).
- $C_{20}H_{36}O_2N_2Cl_2$  1) Menthenbisnitrosochlorid. Sm. 143,5° (B. 26, 2561; 29, 11).

— 20 V —

- $C_{20}H_{16}ON_3ClS$  1) 4-Acetanilidphenazthioniumchlorid (D.R.P. 126410 C. 1902 [1] 87).
- $C_{20}H_{20}O_1N_2Cl_2Se$  1) Di[4-Acetylamidobenzoylmethyl]selenidchlorid (Dichlorseleno-p-Acetylacetaulid). Sm. 130° (A. 314, 288).

**C<sub>21</sub>-Gruppe.**

- $C_{31}H_{16}$  \*1)  $\alpha$ -Dinaphtylmethan. Sm. 99—100°; Sd. 270—272°<sub>14</sub> (C. 1902 [2] 790).
- $C_{21}H_{13}$  C 85,7 — H 14,3 — M. G. 294.
- 1) Trihepten. Sd. oberh. 350° u. Zers. (C. r. 135, 88 C. 1902 [2] 503).

- $C_{21}H_{42}$  2) Kohlenwasserstoff (aus Petroleum). Sd. 230—232°<sub>50</sub> (*Am.* 28, 185 *C.* 1902 [2] 1082).
- $C_{21}H_{44}$  \*1) Hensikosan. Sm. 40—41°; Sd. 230—231°<sub>50</sub> (*Am.* 28, 185 *C.* 1902 [2] 1081).

## — 21 II —

- $C_{21}H_{12}O_2$  \*4)  $\gamma$ -Dinaphtylenketonoxyd ( $\gamma$ -Dinaphtoxanthon). Sm. 240—241° (*B.* 34, 4144 *C.* 1902 [1] 315).
- $C_{21}H_{12}O_4$  2) Benzoat d. 2-Oxy-9,10-Phenanthrenchinon. Sm. 240—242° (*A.* 322, 162 *C.* 1902 [2] 283).
- 3) Benzoat d. 3-Oxy-9,10-Phenanthrenchinon. Sm. 224—226° (*A.* 322, 143 *C.* 1902 [2] 282).
- $C_{21}H_{12}O_6$  2) Monomethyläther d. Cörulein (*Am.* 26, 144).
- 3) isom. Monomethyläther d. Cörulein (*Am.* 26, 144).
- $C_{21}H_{13}N$  \*1)  $\beta$ -Naphtoakridin. Sm. 215,5°. (2HCl, PtCl<sub>4</sub>) (*Soc.* 81, 289 *C.* 1902 [1] 528).
- 3)  $\alpha$ -Naphtoakridin. Sm. 173°. (2HCl, PtCl<sub>4</sub>), Pikrat (*Soc.* 81, 288 *C.* 1902 [1] 528).
- 4) isom.  $\beta$ -Naphtakridin. Sm. 205,5—206°. Pikrat (*B.* 34, 4157 *C.* 1902 [1] 317).
- $C_{21}H_{14}O$  \*8) Anhydrid d. Di[2-Oxynaphtyl]methan (Dinaphtoxanthen). Sm. 198,5°. 2 Pikrat, + PtCl<sub>4</sub>. (*A. ch.* [5] 28, 179; *C.* 1901 [1] 1321; *C. r.* 133, 1219 *C.* 1902 [1] 314; *Bl.* [3] 27, 509 *C.* 1902 [2] 124).
- \*11) Benzoylanthracen. Sm. 148° (*B.* 34, 2766).
- $C_{21}H_{14}O_2$  4) 2,2'-Anhydrid d.  $\alpha$ -Oxydi[2-Oxy-1-Naphtyl]methan (Dinaphtoxanthydrol). Sm. 144°. Pikrat (*C. r.* 133, 880 *C.* 1902 [1] 124; *C. r.* 134, 663 *C.* 1902 [1] 936; *Bl.* [3] 27, 505 *C.* 1902 [2] 124; *C. r.* 135, 531 *C.* 1902 [2] 1214).
- 5) Benzoat d. 2-Oxyphenanthren. Sm. 139—140° (*A.* 321, 308 *C.* 1902 [2] 59).
- 6) Benzoat d. 3-Oxyphenanthren. Sm. 119° (*A.* 321, 292 *C.* 1902 [2] 58).
- 7) Benzoat d. 9-Oxyphenanthren. Sm. 96,7° (*A.* 321, 302 *C.* 1902 [2] 59).
- $C_{21}H_{14}O_5$  \*1) Methyläther d. Fluorescein. Sm. 252—253° (*B.* 34, 2642).
- $C_{21}H_{14}O_7$  3) Methylester d. Gallein. Sm. noch nicht bei 280° (*Am.* 26, 130).
- $C_{21}H_{15}N$  \*6) Nitril d. Triphenylakrylsäure. Sm. 165° (*B.* 34, 1967).
- 7) 9-Benzylidenamidophenanthren. Sm. 108—109° (*B.* 34, 1467).
- $C_{21}H_{15}N_3$  4) Pr-Benzylindophenazin. Sm. 171,5° (*B.* 34, 4012 *C.* 1902 [1] 205).
- $C_{21}H_{15}Br$  3)  $\alpha$ -Bromdi[1-Naphtyl]methan. Sm. 181—182° (*C.* 1902 [2] 790).
- $C_{21}H_{16}O$  \*1)  $\gamma$ -Keto- $\alpha\beta\gamma$ -Triphenylpropen (Benzaldehyoxybenzoin). Sm. 101—102° (*A.* 275, 61, 62; *B.* 34, 3900, 3908 *C.* 1902 [1] 200).
- 10) Isobenzaldehyoxybenzoin. Sm. 88—89° (*A.* 275, 61, 62; *B.* 34, 3901 *C.* 1902 [1] 200). — III, 314.
- 11) Benzyläther d. 3-Oxyphenanthren. Sm. 91—93° (*A.* 321, 290 *C.* 1902 [2] 58).
- $C_{21}H_{16}O_2$  \*1) Di[2-Oxy-1-Naphtyl]methan. Sm. 194° (*Bl.* [3] 25, 577).
- 16) Lakton d. 6-Oxy-3-Methyltriphenylessigsäure. Sm. 130° (*B.* 34, 3071).
- 17) Lakton d. 2-Oxy-4-Methyltriphenylessigsäure. Sm. 126° (*B.* 34, 3069).
- $C_{21}H_{16}O_3$  9) 4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Zers. bei 250—260°. HCl + 2H<sub>2</sub>O, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), H<sub>2</sub>SO<sub>4</sub> + 2H<sub>2</sub>O, Pikrat (*B.* 34, 2373, 2376).
- 10) Propyläther d. Anhydrobisdiketodihydroinden. Sm. 135° (*B.* 34, 3272).
- 11) Methylester d. 1-[ $\beta$ -Benzoyläthenyl]naphtalin-8-Carbonsäure. Sm. 90° (*M.* 22, 820).
- 12) 3-Oxyphenylester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 159—160° (*G.* 32 [1] 182 *C.* 1902 [1] 1054).
- 13) Benzoat d. 2'-Oxy-4-Methyldiphenylketon. Sm. 80° (*B.* 35, 2813 *C.* 1902 [2] 1117).
- $C_{21}H_{16}O_4$  \*7) Dibenzot d. 3,5-Dioxy-1-Methylbenzol. Sm. 87° (*Ar.* 240, 551 *C.* 1902 [2] 1329).

- $C_{21}H_{16}O_4$  11) 4,5,7-Trioxo-2,4-Diphenyl-1,4-Benzpyran. HCl (*B.* 34, 3924 *C.* 1902 [1] 123).  
 12) 4,6,7-Trioxo-2,4-Diphenyl-1,4-Benzpyran. HCl (*B.* 34, 3928 *C.* 1902 [1] 123).  
 13) 4,7,8-Trioxo-2,4-Diphenyl-1,4-Benzpyran. HCl, (2 HCl,  $PtCl_4$ ), Pikrat (*B.* 34, 3920 *C.* 1902 [1] 122).  
 14) 2,3- oder 2,6-Dioxyphenylester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 159° (*G.* 32 [1] 185 *C.* 1902 [1] 1054).
- $C_{21}H_{16}O_5$  6) Diacetat d. 1,8-Dioxy-2-Benzoylnaphthalin (Diacetat d. Phenyl-1,8-Dioxy-2-Naphthylketon). Sm. 115—116° (*C.* 1901 [2] 1287).
- $C_{21}H_{16}O_6$  3) Acetat d. Formononetin. Sm. 164—165° (*M.* 23, 146 *C.* 1902 [1] 1104).
- $C_{21}H_{16}O_8$  \*13) Triacetat d. 5,7-Dioxy-2-[4-Oxyphenyl]-1,4-Benzpyron (T. d. Apigenin). Sm. 186° (*G.* 31 [1] 75).  
 15) Triacetat d. 5-Oxy-2-Keto-1-[3,4-Dioxybenzyliden]-1,2-Dihydrobenzofuran. Sm. 168° (*B.* 34, 300).  
 16) Triacetat d. 7-Oxy-2-[3,4-Dioxyphenyl]-1,4-Benzpyron. Sm. 209 bis 210° (*B.* 34, 3726 *C.* 1902 [1] 46).  
 17) Triacetat d. 7-Oxy-2-[3,5-Dioxyphenyl]-1,4-Benzpyron. Sm. 187° (*B.* 35, 2887 *C.* 1902 [2] 1054).  
 18) Triacetat d. 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron. Sm. 178° (*B.* 34, 1456).  
 19) Triacetat d. 5,7-Dioxy-2-[3-Oxyphenyl]-1,4-Benzpyron. Sm. 165 bis 166° (*B.* 34, 112).
- $C_{21}H_{16}O_9$  \*1) Parellsäure +  $H_2O$  (*J. pr.* [2] 65, 537 *C.* 1902 [2] 379).  
 $C_{21}H_{16}O_{10}$  4) Coccinsäure +  $3H_2O$ . Sm. 262—264° u. Zers. (*J. pr.* [2] 65, 558 *C.* 1902 [2] 381).
- $C_{21}H_{16}N_3$  14) 2,2'-Dinaphtylformamidin. Sm. 186° (*B.* 35, 2501 *C.* 1902 [2] 437).  
 $C_{21}H_{16}N_4$  3) Phenyl-di-2-Indazolylmethan (Benzylidendiindazol). Sm. 138—139° (*B.* 34, 798).
- $C_{21}H_{17}N_3$  6) Cinnamylidenamidoazobenzol. Sm. 136° (*B.* 35, 1432 *C.* 1902 [1] 1161).  
 7) 2-[2-Amidophenyl]-4,5-Diphenylimidazol (o-Amidolophin). 2 HCl (*J. pr.* [2] 64, 545 *C.* 1902 [1] 261).  
 8) 2-[3-Amidophenyl]-4,5-Diphenylimidazol (m-Amidolophin). Sm. 290° u. Zers. 2 HCl, (2 HCl,  $PtCl_4$ ), ( $H_2$ ,  $J_2$ ),  $HNO_3$ ,  $H_2SO_4$ , Pikrat (*J. pr.* [2] 64, 535 *C.* 1902 [1] 260).  
 9) 2-[4-Amidophenyl]-4,5-Diphenylimidazol. Zers. oberh. 180°. 2 HCl (*J. pr.* [2] 64, 543 *C.* 1902 [1] 261).
- $C_{21}H_{18}O$  \*3)  $\alpha$ -Keto- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 120—122° (*B.* 35, 1990 *C.* 1902 [2] 367).  
 5) 2,7-Dimethyl-1-Phenylxanthen. Sm. 191—191,5° (*B.* 35, 3255 *C.* 1902 [2] 1252).
- $C_{21}H_{18}O_2$  \*9) Acetat d.  $\alpha$ -Oxytriphenylmethan. Sm. 87—88° (*M.* 22, 612; *B.* 35, 1835 *C.* 1902 [2] 212).  
 11) 7-Oxy-2,4-Diphenyl-2,3-Dihydro-1,4-Benzpyran. Zers. bei 142° (*B.* 34, 2383).  
 12) 4-Methyltriphenylelessigsäure. Sm. 205°. Ag (*B.* 34, 3080).  
 13) Acetat d. 2-Oxytriphenylmethan. Sm. 81—82° (*C.* 1899 [1] 172). — \*II, 543.  
 14) Acetat d. 4-Oxytriphenylmethan. Sm. 84° (*B.* 35, 3138 *C.* 1902 [2] 1210).
- $C_{21}H_{18}O_3$  10) 4-Oxy-2-Methyltriphenylelessigsäure. Sm. 212—213° (*B.* 34, 3070).  
 11) 4-Oxy-3-Methyltriphenylelessigsäure. Sm. 190° (*B.* 34, 3072).  
 12) 2-Oxy-4-Methyltriphenylelessigsäure (*B.* 34, 3070).  
 13) 4-Oxytriphenylelessigmethyläthersäure. Sm. 174° (*B.* 34, 3067).  
 14) 4-Acetat d.  $\alpha,4$ -Dioxytriphenylmethan. Sm. 136° (*B.* 34, 3076).  
 $C_{21}H_{18}O_4$  C 75,4 — H 5,4 — O 19,2 — M. G. 334.  
 1) Menthylester d.  $\beta$ -Acetoxy- $\alpha$ -Phenylakrylsäure. Sm. 51—52° (*C.* 1902 [2] 208).  
 2) Menthylester d. Benzoylacetylelessigsäure. Fl. Cu (*C.* 1902 [2] 208).
- $C_{21}H_{18}O_6$  \*1)  $\alpha$ -Trimethyläther d. Dehydrobrasilinmonacetat. Sm. 174—176° (*M.* 23, 175 *C.* 1902 [1] 1106; *B.* 35, 1673 *C.* 1902 [1] 1354; *See.* 81, 1045 *C.* 1902 [2] 749).

- $C_{21}H_{18}O_6$  6)  $\beta$ -Trimethyläther d. Dehydrobrasilinmonacetat. Sm. 183—185° (M. 23, 176 C. 1902 [1] 1106).  
C 56,5 — H 4,0 — O 39,5 — M. G. 446.
- $C_{21}H_{18}O_{11}$  1) Acetylhydroeuxanthinsäure. Sm. 241° (A. 318, 362).  
C 54,5 — H 3,9 — O 41,6 — M. G. 462.
- $C_{21}H_{18}O_{12}$  1) Ocellatssäure. Sm. 208° (J. pr. [2] 63, 551).
- $C_{21}H_{18}N_2$  16) Nitril d.  $\alpha$ -Phenylbenzylamido- $\alpha$ -Phenylessigsäure. Sm. 134° (B. 35, 3358 C. 1902 [2] 1196).
- $C_{21}H_{18}N_4$  5)  $\beta$ -[ $\alpha$ -Imidobenzyl]imido- $\alpha$ -Phenylhydrazon- $\alpha$ -Phenyläthan. Sm. 181° (B. 34, 3025).  
6)  $\alpha$ -Hydrazido- $\alpha$ -[2-Naphtyl]imido- $\alpha$ -[2-Naphtyl]amidomethan. Sm. 163—164°. HCl + H<sub>2</sub>O, HNO<sub>3</sub>, Pikrat (B. 35, 1725 C. 1902 [2] 32).  
7) 2-[2- $\alpha$ -Phenyläthylidenhydrazidophenyl]benzimidazol. Sm. 135° (B. 34, 2970).  
8) 2-[3- $\alpha$ -Phenyläthylidenhydrazidophenyl]benzimidazol. Sm. 250° (B. 34, 2970).  
9) 2-[4- $\alpha$ -Phenyläthylidenhydrazidophenyl]benzimidazol. Sm. 260° (B. 34, 2971).
- $C_{21}H_{18}S_3$  4) Triäthyläther d.  $\alpha\alpha\beta$ -Trimerkapto- $\alpha\gamma$ -Diphenylpropan. Fl. (B. 34, 1403).
- $C_{21}H_{20}O$  \*1) Äthyläther d.  $\alpha$ -Oxytriphenylmethan. Sm. 82—83° (M. 22, 610; B. 35, 1834 C. 1902 [2] 212).  
5) Äthyläther d. 4-Oxytriphenylmethan. Sm. 70—71° (B. 35, 3136 C. 1902 [2] 1210).  
6) 3-Keto- $\beta$ -Dibenzyliden-1,1-Dimethyl-R-Pentamethylen. Sm. 138 bis 139° (A. 324, 111 C. 1902 [2] 1201).
- $C_{21}H_{20}O_2$  2) 6,6'-Dioxy-3,3'-Dimethyltriphenylmethan. Sm. 158—160° (B. 35, 3254 C. 1902 [2] 1252).  
3) Dimethyläther d.  $\alpha$ -4-Dioxytriphenylmethan. Sm. 74° (B. 35, 3135 C. 1902 [2] 1210).  
4) Dimethyläther d. 4,4'-Dioxytriphenylmethan (Phenyldianisylmethan). Sm. 100—100,5° (B. 35, 1200 C. 1902 [1] 1006; B. 35, 3253 C. 1902 [2] 1252).
- $C_{21}H_{20}O_3$  \*5) Äthylester d. 4-Keto-2,6-Diphenyl-1,2,3,4-Tetrahydrobenzol-3-Carbonsäure. Sm. 111—112° (B. 35, 398 C. 1902 [1] 570).
- $C_{21}H_{20}O_5$  C 71,6 — H 5,7 — O 22,7 — M. G. 352.
- $C_{21}H_{20}O_6$  1) Diäthylester d.  $\gamma$ -Keto- $\beta\gamma$ -Diphenylpropen- $\alpha\alpha$ -Dicarbonsäure (D. d. Desylenmalonsäure). Sm. 70—71° (A. 319, 179).  
\*4) Monacetat d. Apigenindiäthyläther. Sm. 151—152° (Soc. 81, 1175 Ann. C. 1902 [2] 704).  
7)  $\alpha\gamma$ -Lakton d.  $\alpha\beta$ -Diacetoxy- $\gamma$ -Oxy- $\alpha\delta$ -Diphenylvaleriansäure. Sm. 137° (A. 319, 221 C. 1902 [1] 108).  
8) 5-Acetat d. 5,7-Dioxy-2-[2-Oxyphenyl]-1,4-Benzpyron-2',7-Diäthyläther. Sm. 120—122° (B. 34, 1456).
- $C_{21}H_{20}O_7$  3)  $\alpha\gamma$ - $\epsilon\zeta$ -Dilakton d.  $\alpha$ -Oxy- $\beta$ -Benzoxyl- $\theta$ -Keto- $\zeta$ -Oxymethyl- $\delta\delta$ -Dimethyl- $\beta\epsilon$ -Nonadien- $\gamma\epsilon$ -Dicarbonsäure. Sm. 134—135° (A. 315, 167). — \*II, 724.
- $C_{21}H_{20}O_9$  4) Barbaloin (C. r. 134, 1584 C. 1902 [2] 370).  
5) Isobarbaloin (C. r. 134, 1584 C. 1902 [2] 370).  
6) Methylster d. Cetrarsäure. Sm. 155—156° (Ar. 240, 537 C. 1902 [2] 1329).
- $C_{21}H_{20}O_{10}$  \*8) Äthylester d. Anhydroeuxanthinsäure. Sm. 198° (A. 318, 356).  
9) d-Glykoseapigenin + 2H<sub>2</sub>O. Sm. 215—220° (A. 318, 126).  
10) Sequoiagerbstoff (C. 1901 [2] 312).  
C 54,3 — H 4,3 — O 41,4 — M. G. 464.
- $C_{21}H_{20}O_{12}$  1) Scutellarin + 2 $\frac{1}{2}$ H<sub>2</sub>O. Zers. bei 200° (M. 22, 685).
- $C_{21}H_{20}N_2$  \*11)  $\beta$ -Benzyliden- $\alpha\alpha$ -Dibenzylhydrazin. Sm. 85° (B. 34, 558).  
12) 4-[2,5-Dimethylbenzyliden]amido-4'-Amidobiphenyl. Sm. 187,5° (C. 1901 [2] 772).  
13) Methylen-1,2-Di[Phenylamidomethyl]benzol. Sm. 196° (B. 34, 1508).
- $C_{21}H_{20}N_4$  \*2)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha$ -[4-Methylphenyl]äthan. Sm. 146°. HCl (B. 35, 2293 C. 1902 [2] 362).



- $C_{21}H_{20}N_6$  \*2)  $\alpha$ -Phenylazo- $\alpha$ - $\beta$ -Di[Phenylhydrazon]propan. Sm. 165° (*J. pr.* [2] 64, 226).
- $C_{21}H_{21}N$  9)  $\alpha$ -Aethylamidotriphenylmethan. Sm. 75—77° (*B.* 35, 1828 *C.* 1902 [2] 212).
- 10) Dibenzyl[3-Methylphenyl]amin (D.R.P. 115653 *C.* 1900 [2] 1190). — \*II, 293.
- $C_{21}H_{21}N_3$  \*1) 5-Amido-1,4-Di[4-Methylphenylimido]-2-Methyl-1,4-Dihydrobenzol. Sm. 235° (*B.* 34, 1280).
- $C_{21}H_{21}P$  2) Tri[4-Methylphenyl]phosphin. Sm. 146° (*A.* 315, 78).
- $C_{21}H_{21}As$  \*2) Tri[4-Methylphenyl]arsin. Sm. 146°. +  $HgCl_2$  (*A.* 321, 200 *C.* 1902 [2] 46).
- 3) Tri[3-Methylphenyl]arsin. Sm. 96°. +  $HgCl_2$  (*A.* 321, 216 *C.* 1902 [2] 47).
- $C_{21}H_{22}O_2$  C 82,4 — H 7,2 — O 10,4 — M. G. 306.
- 1) 1-Oxy-3-Keto-2,4-Diäthyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 113—114° (*Soc.* 79, 1041).
- $C_{21}H_{22}O_4$  4) Aethylester d.  $\alpha\epsilon$ -Diketo- $\alpha\gamma$ -Diphenylhexan- $\delta$ -Carbonsäure (Acetessigesterbenzylidenacetophenon). Sm. 120—121° (*B.* 35, 397 *C.* 1902 [1] 570).
- $C_{21}H_{22}O_6$  \*2) Monoacetat d. Brasilintrimethyläther. Sm. 174—176° (*B.* 35, 1669 *C.* 1902 [1] 1354).
- $C_{21}H_{22}O_5$  7) Carbonat d. 3,4-Dioxy-1-Allylbenzol-3-Methyläther. Sm. 93—94° (D.R.P. 58129). — \*II, 588.
- 8) Carbonat d. 3,4-Dioxy-1-Propenylbenzol-3-Methyläther. Sm. 112 bis 113° (D.R.P. 61848, 99057). — \*II, 591.
- $C_{21}H_{22}O_9$  \*3) Dimethylester d. Brasilinsäure. Sm. 117° (*Soc.* 81, 1032 *C.* 1902 [2] 747).
- $C_{21}H_{22}O_{13}$  C 52,3 — H 4,5 — O 43,2 — M. G. 482.
- 1) Myricitrin +  $H_2O$ . Sm. 199—200° (*Soc.* 81, 207 *C.* 1902 [1] 528, 816).
- $C_{21}H_{22}J_2$  1) 4-Isoamylphenyl-1-Naphtyljodoniumjodid. Sm. 134° u. Zers. (*B.* 34, 3686).
- $C_{21}H_{24}O$  C 86,3 — H 8,2 — O 5,5 — M. G. 292.
- 1) 3-Keto- $\beta$ -Dibenzyl-1-Methylhexahydrobenzol. Sm. 100°; Sd. 243°<sub>15</sub> (*Bl.* [3] 27, 307 *C.* 1902 [1] 1221).
- $C_{21}H_{24}O_3$  C 77,8 — H 7,4 — O 14,8 — M. G. 324.
- 1) Aethylester d.  $\beta$ -Oxy- $\beta$ -Phenylakryl-3-Methyl-6-Isopropylphenyläthersäure. Sd. 218—219°<sub>12</sub> (*Soc.* 79, 918).
- $C_{21}H_{24}O_4$  7) 4,4'-Methylenäther d. 3,4-Dioxy-1-Propenylbenzol-3-Methyläther (Methylenbisoeugenol). Sm. 50—52°; Sd. 272—273° (i. V.) (D.R.P. 75264, 76061). — \*II, 590.
- 8) 4,4'-Methylenäther d. 3,4-Dioxy-1-Allylbenzol-3-Methylenäther (Methylenbiseugenol). Sm. 28°; Sd. 262° (i. V.) (D.R.P. 76061). — \*II, 588.
- $C_{21}H_{24}O_6$  4) 3,5-Dimethyläther-2,4-Diäthyläther d.  $\alpha\gamma$ -Diketo- $\alpha$ -[2,4-Dioxyphenyl]- $\gamma$ -[3,5-Dioxyphenyl]propan. Sm. 139,5° (*B.* 35, 2885 *C.* 1902 [2] 1054).
- $C_{21}H_{24}O_7$  4) 2,4,6,3'-Tetramethyläther-4'-Aethyläther d. 2,4,6,3',4'-Pentaoxydibenzoylmethan. Sm. 106—107° (*B.* 34, 1450).
- 5) Monoacetat d. Katechintetramethyläther. Sm. 92—93° (*B.* 35, 1869 *C.* 1902 [2] 51; *B.* 35, 2408 *C.* 1902 [2] 448).
- $C_{21}H_{24}O_{11}$  \*3) Tetracetylhelicin. Sm. 142° (*C.* 1902 [2] 215).
- $C_{21}H_{24}S_2$  1) Diäthyläther d.  $\gamma\gamma$ -Dimerkapto- $\alpha\epsilon$ -Diphenyl- $\alpha\delta$ -Pentadien (*B.* 34, 1401).
- $C_{21}H_{26}O_2$  2) 1-Menthylester d. Naphtalin-2-Carbonsäure (*C.* 1902 [2] 1238).
- $C_{21}H_{26}O_3$  2) Di[2-Methyl-5-Isopropylphenylester] d. Kohlensäure. Fl. (D.R.P. 58129). — \*II, 459.
- $C_{21}H_{26}O_5$  2) Di[2-Butoxyphenylester] d. Kohlensäure. Sm. 48° (D.R.P. 72806). — \*II, 551.
- 3) Di[2-Isobutoxyphenylester] d. Kohlensäure. Sm. 51° (D.R.P. 72806). — \*II, 551.
- $C_{21}H_{26}O_8$  C 62,1 — H 6,4 — O 31,5 — M. G. 406.
- 1) Tetraäthylester d.  $\gamma$ -Phenylpropan- $\alpha\beta\gamma\gamma$ -Tetracarbonsäure (*Soc.* 81, 1214 *C.* 1902 [2] 888).
- $C_{21}H_{26}O_{12}$  2) Methylester d. Plumieridsäure (Plumierid; Agoniadin) (*B.* 19, 350).

- $C_{21}H_{23}O_2$  3) Diisobutyläther d.  $\alpha\alpha$ -Dioxydiphenylmethan. Sm. 36—38°; Sd. 210°<sub>35</sub> (Soc. 79, 1207).  
 4) Menthyläther-2-Naphtyläther d. Dioxymethan. Sm. 120° (B. 34, 816).  
 $C_{21}H_{36}O_4$  2) Diäthylester d. Di[3-Methylhexahydrophenyl]malonsäure. Sd. 200 bis 205°<sub>8-10</sub> (B. 34, 3887 C. 1902 [1] 110).  
 $C_{21}H_{40}O_2$  \*3) Methylenäther d. Menthol. Sm. 57° (B. 34, 816).  
 $C_{21}H_{40}O_3$  3) Bryoidin. Sm. 135,5° (Ar. 240, 308 C. 1902 [2] 135).  
 $C_{21}H_{44}O$  3)  $\beta$ -[ $\beta$ -Oxyäthyl]- $\beta$ -Butylpentadekan (Triönanthylalkohol). Sd. 202 bis 206°<sub>13</sub> (Bl. [3] 25, 302; C. 1902 [2] 887).  
 $C_{21}H_{49}O_6$  1) Karabin (C. 1901 [1] 1201).

## — 21 III —

- $C_{21}H_{12}O_2N_2$  C 77,7 — H 3,7 — O 10,0 — N 8,6 — M. G. 324.  
 1)  $\beta$ -Nitro- $\alpha$ -Naphtakridin. Sm. 105—107° (Soc. 81, 289 C. 1902 [1] 528).  
 2) isom.  $\beta$ -Nitro- $\alpha$ -Naphtakridin. Sm. 185° (Soc. 81, 289 C. 1902 [1] 812).  
 $C_{21}H_{12}O_7N_2$  2) Monobenzoat d. 2,7-Dinitro-9,10-Dioxyphenanthren. Sm. 271° (B. 35, 3127 C. 1902 [2] 1213).  
 $C_{21}H_{12}O_5Cl_4$  1) Triacetat d. 3, 5, 6, 8-Tetrachlor-1, 4, 7-Trioxy-2-Methyl-9,10-Anthrachinon? Sm. 270—271° (C. r. 134, 1112 C. 1902 [2] 62).  
 $C_{21}H_{12}NJ$  1) ms-Jod- $\beta$ -Naphtakridin. HJ (B. 34, 4156 C. 1902 [1] 317).  
 $C_{21}H_{13}ON$  \*1)  $\beta$ -Naphtakridon. Sm. oberh. 300° (B. 34, 4149 C. 1902 [1] 316).  
 \*2) 1-Phenyl-9,10-Phenanthrenoxazol. Sm. 205° (B. 35, 2738 C. 1902 [2] 645).  
 4) Verbindung (aus 1-p-Tolylamido-9,10-Anthrachinon) (D.R.P. 126444 C. 1902 [1] 79).  
 $C_{21}H_{13}OCl$  1) Anhydrid d. Di[2-Oxynaphtyl]chlormethan. Sm. 150° (C. r. 133, 102, 237).  
 $C_{21}H_{13}OBr$  3) Dinaphtoxanthoniumhypobromit (Anhydrid d. Di[2-Oxynaphtyl]-brommethan). Sm. 218—220°. + Essigsäure (C. r. 133, 101, 236; C. r. 134, 905 C. 1902 [1] 1296; Bl. [3] 27, 512 C. 1902 [2] 125).  
 $C_{21}H_{13}OBr_3$  1) Tribromdinaphtoxanthonium (A. ch. [5] 28, 165; C. r. 134, 178 C. 1902 [1] 475). — II, 1104.  
 $C_{21}H_{13}OJ_3$  1) Trijoddinaphtoxanthonium (A. ch. [5] 28, 172; C. r. 134, 179 C. 1902 [1] 476). — II, 1104.  
 $C_{21}H_{13}O_3N$  4) Benzoat d. 9-Oximido-10-Keto-9,10-Dihydrophenanthren. Sm. 174 bis 175° (B. 35, 2743 C. 1902 [2] 646).  
 $C_{21}H_{13}O_5N$  C 70,2 — H 3,6 — O 22,3 — N 3,9 — M. G. 359.  
 1) Monobenzoylderivat d. 4-Amido-1,2-Dioxy-9,10-Anthrachinon. Sm. oberh. 310° (B. 35, 908 C. 1902 [1] 815).  
 $C_{21}H_{14}O_2S$  2) 2-Methylphenyläther d. 1-Merkapto-9,10-Anthrachinon. Sm. 212° (C. 1901 [1] 211).  
 3) 4-Methylphenyläther d. 1-Merkapto-9,10-Anthrachinon. Sm. 226° (C. 1901 [1] 211).  
 $C_{21}H_{14}O_3N_2$  11) Phenylamidoformiat d. 9-Oximido-10-Keto-9,10-Dihydrophenanthren. Sm. 127—128° (B. 35, 2743 C. 1902 [2] 646).  
 $C_{21}H_{14}O_4N_2$  5) 5-Nitro-1-[4-Methylphenyl]amido-9,10-Anthrachinon (C. 1901 [2] 1373).  
 6) 7-Nitro-1-[4-Methylphenyl]amido-9,10-Anthrachinon (C. 1901 [2] 1373).  
 7) 8-Nitro-1-[4-Methylphenyl]amido-9,10-Anthrachinon (C. 1901 [2] 1373).  
 $C_{21}H_{15}ON$  \*3) 2,4,5-Triphenyloxazol (Benzilam). Sm. 113—115° (J. pr. [2] 64, 533 C. 1902 [1] 260).  
 7) 2-Oxy-1-[1-Naphtylimido]methylnaphtalin. Sm. 180° (Bl. [3] 25, 375).  
 8) 2-Benzoylamidophenanthren. Sm. 216,5° (A. 321, 319 C. 1902 [2] 60).  
 9) 3-Benzoylamidophenanthren. Sm. 213—214° (211°) (B. 34, 3534; A. 321, 317 C. 1902 [2] 59).  
 10) 9-Benzoylamidophenanthren. Sm. 199° (B. 34, 1466).  
 $C_{21}H_{15}ON_3$  5) Azin (aus 2,4,5-Triamido-1-Oxybenzolmethyläther u. Phenanthrenchinon). + 1 Molec. Toluol. Sm. 237° (C. 1901 [2] 98).

- $C_{21}H_{15}ON_3$  6) Nitril d.  $\alpha$ -[3-Benzoylamidophenyl]amido- $\alpha$ -Phenylelessigsäure. Sm. 139° (B. 35, 3343 C. 1902 [2] 1194).
- $C_{21}H_{15}O_2N$  \* 2) Benzyläther d. 9-Oximido-10-Keto-9,10-Dihydroanthracen. Sm. 85° (A. 323, 233 C. 1902 [2] 802).
- 7) 2,2'-Dinaphtylamin-3-Carbonsäure. Sm. 222—225° (B. 34, 4153 C. 1902 [1] 316).
- 8) 2-Naphtylamid d. 3-Oxynaphtalin-2-Carbonsäure. Sm. 243—244° (B. 34, 4152 C. 1902 [1] 316).
- $C_{21}H_{15}O_2N_3$  7) 2-[3-Nitrophenyl]-4,5-Diphenylimidazol. (Nitrolophin). Sm. noch nicht bei 259° (J. pr. [2] 64, 534 C. 1902 [1] 260).
- 8) 2-[4-Nitrophenyl]-4,5-Diphenylimidazol (J. pr. [2] 64, 541 C. 1902 [1] 261).
- $C_{21}H_{15}O_2Cl$  1) 4-Chlor-7-Oxy-2,4-Diphenyl-1,4-Benzpyran. HCl (B. 34, 2382).
- $C_{21}H_{15}O_2Br$  1) Lakton d. p-Brom-6-Oxy-3-Methyltriphenylelessigsäure. Sm. 161° (B. 34, 3072).
- 2) Lakton d. p-Brom-2-Oxy-4-Methyltriphenylelessigsäure. Sm. 158 bis 159° (B. 34, 3070).
- $C_{21}H_{15}O_3N_3$  3) 2,4,6-Tri[2-Oxyphenyl]-1,3,5-Triazin. Sm. 296—299° (208°?) (A. 98, 261; B. 2, 492; 22, 2798; Bl. 13, 26; B. 35, 3653, 3655 C. 1902 [2] 1458). — II, 1501.
- $C_{21}H_{15}O_3N_5$  C 65,4 — H 3,9 — O 12,5 — N 18,2 — M. G. 385.
- 1) 4-[4-Nitrophenyl]azo-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol (B. 35, 926 C. 1902 [1] 807).
- $C_{21}H_{15}O_4N$  13) 8-Nitroso-4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Sm. 135—138° (B. 34, 2382).
- $C_{21}H_{15}O_5N$  4) 8-Nitroso-4,5,7-Trioxo-2,4-Diphenyl-1,4-Benzpyran. Zers. oberh. 230° (B. 34, 3926 C. 1902 [1] 123).
- $C_{21}H_{15}O_7P$  1) Triphenylphosphinoxid-4,4,4'-Tricarbonsäure. Sm. 247°. Ag<sub>3</sub> (A. 315, 92).
- $C_{21}H_{15}O_{10}Br_5$  1) Pentabromsequoiagerbstoff (C. 1901 [2] 312).
- $C_{21}H_{15}ON_2$  \* 1) s-1,1-Dinaphtylharnstoff. Sm. 286—287° (Soc. 79, 107; G. 29 [2] 144).
- 12) s-Phenyl-2-Phenanthrylharnstoff. Sm. 276° (A. 321, 320 C. 1902 [2] 60).
- 13) s-Phenyl-3-Phenanthrylharnstoff. Sm. noch nicht bei 300° (B. 34, 3534; A. 321, 317 C. 1902 [2] 60).
- 14) s-Phenyl-9-Phenanthrylharnstoff (9-[ $\beta$ -Phenylureido]phenanthren). Sm. 290° u. Zers. (B. 34, 1467).
- 15) Methyläther d. 5-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 191° (Soc. 81, 992 C. 1902 [2] 697).
- 16) Methyläther d. 6-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 154 bis 155° (Soc. 81, 991 C. 1902 [2] 696).
- 17) Phenyläthenylanilanthranilsäureanhydrid. Sm. 229° (C. 1902 [2] 122).
- $C_{21}H_{16}ON_3$  \* 1) 5-Keto-3-Phenylazo-4-Phenylhydrazon-1-Phenyl-4,5-Dihydropyrazol. Sm. 216—217° (J. pr. [2] 64, 210).
- $C_{21}H_{16}OBr_2$  \* 1) s- $\beta$ -Dibrom- $\alpha$ -Keto- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 134—135° u. Zers. (B. 34, 3906).
- $C_{21}H_{16}O_2N_2$  8) 9-Phenylureido-10-Oxyphenanthren. Sm. 241° (B. 35, 2738 C. 1902 [2] 645).
- 9)  $\alpha$ -Phenylhydrazon- $\alpha$ -[9-Fluorenyl]essigsäure. Sm. 200—201° u. Zers. (B. 35, 760 C. 1902 [1] 813).
- $C_{21}H_{16}O_2Br_2$  1) Acetat d. p-Dibrom-4-Oxytriphenylmethan. Sm. 112—113° (B. 35, 3140 C. 1902 [2] 1210).
- $C_{21}H_{16}O_3N_2$  7) s-Di[7-Oxy-2-Naphtyl]harnstoff (C. 1901 [1] 70).
- 8) Aethylester d. Benzylidenbenzo- $\beta$ -Ketopentamethylenazinmethylsäure. Sm. 203° (Bl. [3] 25, 720).
- $C_{21}H_{16}O_3N_4$  2) 5-[4-Methylphenyl]amido-2-[4-Nitro- $\alpha$ -Cyanbenzyliden]amido-1-Oxybenzol. Sm. 152° (J. pr. [2] 65, 69 C. 1902 [1] 579).
- $C_{21}H_{16}O_3Br_2$  2) 2,3-Dibrom-4,7-Dioxy-2,4-Diphenyl-2,3-Dihydro-1,4-Benzpyran. Zers. oberh. 240° (B. 34, 2381).
- $C_{21}H_{16}O_6Cl_4$  1) Tetrachlorbarbaloin (C. r. 134, 1585 C. 1902 [2] 370).
- $C_{21}H_{16}N_3S$  4) 9-[ $\beta$ -Phenylthioureido]phenanthren. Sm. 194—195° (B. 34, 1467).
- $C_{21}H_{17}ON$  \* 6) Diphenylamid d.  $\beta$ -Phenylakrylsäure. Sm. 154° (A. 320, 93).

- $C_{21}H_{17}ON$  7) Verbindung (aus d. isom.  $\alpha\beta$ -Dinitro- $\alpha\beta$ -Diphenyläthan). Sm. 212 bis 214° (B. 34, 3542 Anm.).
- $C_{21}H_{17}ON_3$  8) Methyläther d. 5- oder 8-Amido-6- oder 5-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 214—215° (Soc. 81, 993 C. 1902 [2] 697).
- 9) Methyläther d. 7-Amido-6-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 223° (Soc. 79, 1077).
- $C_{21}H_{17}OCl$  \*1)  $\gamma$ -Chlor- $\alpha$ -Keto- $\alpha\beta$ -Triphenylpropan. Sm. 172—172,5° (B. 34, 3898 C. 1902 [1] 199).
- $C_{21}H_{17}O_2N$  11) N-Methylphenacylnaphtalimidin. Sm. 95—100° (M. 23, 837 C. 1902 [2] 1471).
- $C_{21}H_{17}O_2N_3$  6) s-Dibenzoylphenylguanidin. Sm. 183,5° (Am. 26, 222).
- 7) Verbindung (aus Dibenzylketon, Cyanessigester u.  $NH_3$ ). Sm. 241 bis 243,5° (C. 1901 [1] 581).
- $C_{21}H_{17}O_2Br_3$  1) l-Bornylester d. Tribromessigsäure. Sm. 61° (C. r. 134, 609 C. 1902 [1] 872).
- $C_{21}H_{17}O_3N$  19) Phenylester d.  $\alpha$ -Benzoylamido- $\alpha$ -Phenylessigsäure. Sm. 131° (D. R. P. 55027). — \*II, 822.
- $C_{21}H_{17}O_4N$  \*1) Chelerythrin. +  $C_2H_6O$  (Sm. 203—204°). (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ),  $H_2SO_4$  +  $2H_2O$ , Pikrat (C. 1901 [2] 781, 784).
- $C_{21}H_{17}N_3S$  5) Benzyläther d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 100 bis 100,5° (Am. 27, 266 C. 1902 [1] 1299).
- $C_{21}H_{18}ON_6$  \*1)  $\alpha\alpha$ -Diphenylazo- $\alpha$ -Acetylphenylhydrazonmethan. Sm. 190° (J. pr. [2] 64, 202).
- $C_{21}H_{18}OBr_2$  1) Äthyläther d. p-Dibrom-4-Oxytriphenylmethan. Sm. 132° (B. 35, 3138, 3139 C. 1902 [2] 1210).
- $C_{21}H_{18}OS$  1) Phenyläther d.  $\beta$ -Merkapto- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 121° (B. 35, 809 C. 1902 [1] 756).
- 2) Triphenylmethylester d. Thiolessigsäure. Sm. 138—140° (Am. 26, 357).
- $C_{21}H_{18}O_2N_2$  \*7)  $\alpha\beta$ -Dibenzoyl- $\beta$ -Methyl- $\alpha$ -Phenylhydrazin. Sm. 145° (B. 35, 1567; B. 35, 1945 C. 1902 [2] 112).
- 18)  $\beta$ -Phenylureido- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan (Desylphenylharnstoff). Sm. 174—175° (B. 35, 2742 C. 1902 [2] 645).
- 19) Laktan d. 1-[ $\gamma$ -Phenylhydrazon- $\alpha$ -Oxybutyl]naphtalin-8-Carbonsäure. Sm. 135—140° (M. 22, 833).
- $C_{21}H_{18}O_3N_4$  13) Benzyläther d. 4-Phenylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 176—177° (C. 1901 [1] 936).
- $C_{21}H_{18}O_2N_6$  \*1) Phenylhydrazon d. Formazylglyoxalsäure (J. pr. [2] 64, 209).
- $C_{21}H_{18}O_3Br_2$  2) Dimethyläther d. p-Dibrom- $\alpha$ ,4-Dioxytriphenylmethan. Sm. 98° (B. 35, 3138 C. 1902 [2] 1210).
- $C_{21}H_{18}O_3N_2$  12) Methyläther d. 3,4-Di[Benzoylamido]-1-Oxybenzol. Sm. 251—252° (Soc. 81, 991 C. 1902 [2] 696).
- $C_{21}H_{18}O_3S$  1)  $\gamma$ -Phenylsulfon- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 160—161° (B. 35, 810 C. 1902 [1] 756).
- $C_{21}H_{18}O_4N_2$  5) Benzoat d.  $\alpha$ -Oxy- $\alpha$ -[4-Nitrophenyl]- $\beta$ -[2,4-Dimethylpyridyl]äthan. Sm. 214° u. Zers. (2HCl,  $PtCl_4$ ) (B. 35, 2791 C. 1902 [2] 994).
- $C_{21}H_{18}N_4S$  2) 2-Phenylimido-5-Methylphenylamido-3-Phenyl-2,3-Dihydro-1,3,4-Thiadiazol. Sm. 143—144° (B. 34, 344).
- 3) 3-Methylphenylamido-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 112—113° (B. 34, 345).
- $C_{21}H_{19}ON$  \*7)  $\alpha$ -Oximido- $\alpha\beta\gamma$ -Triphenylpropan. Sm. 210° (B. 35, 1990 C. 1902 [2] 367).
- 18) Methyläther d. 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Sm. 152—153° (B. 35, 3072 C. 1902 [2] 1129).
- $C_{21}H_{19}O_2N$  10) Diphenylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 93° (B. 34, 2139).
- $C_{21}H_{19}O_2N_3$  9) 4-Phenylazobenzol-4'-Methylamidoessigsäure (B. 35, 579 C. 1902 [1] 581).
- $C_{21}H_{19}O_3N$  C 65,7 — H 5,7 — O 14,4 — N 4,2 — M. G. 333.
- 1) Acetat d. 2-Oxy-1-[ $\alpha$ -Acetylamidobenzyl]naphtalin. Sm. 162° (G. 31 [1] 389).
- $C_{21}H_{19}N_3S$  1) Methyläther d. Phenylimido[ $\alpha$ -Phenyl- $\beta$ -Benzylidenhydrazido]-merkaptomethan. Sm. 127—128° (B. 34, 339).

- $C_{21}H_{10}N_3S$  2) Methyläther d. 3-Merkapto-1,4,5-Triphenyl-4,5-Dihydro-1,3,4-Triazol. Sm. 108—109° (B. 34, 339).
- $C_{21}H_{20}ON_2$  17) 6-[4-Methylphenyl]amido-4-[4-Methylphenyl]imido-1-Keto-3-Methyl-1,4-Dihydrobenzol? Sm. 181°. (2HCl, PtCl<sub>4</sub>) (B. 34, 1283; B. 34, 4348 C. 1902 [1] 252).
- 18)  $\alpha$ -Benzyloxyamido- $\alpha$ -[2-Methylphenyl]imido- $\alpha$ -Phenylmethan. Cu (B. 34, 2629).
- 19) Verbindung (aus Bisnitrosylbenzyl). Sm. 168—169° (A. 323, 275 C. 1902 [2] 1102).
- $C_{21}H_{20}ON_4$  \*5) 2-Oxy-3,5-Di[2-Methylphenylazo]-1-Methylbenzol. Sm. 149° (J. pr. [2] 65, 430 C. 1902 [2] 37).
- \*6) 2-Oxy-3,5-Di[4-Methylphenylazo]-1-Methylbenzol. Sm. 164° (J. pr. [2] 65, 438 C. 1902 [2] 37).
- 11)  $\alpha$ -[2-Methylphenyl]azo- $\alpha$ -[3-Methylphenyl]- $\beta$ -Phenylharnstoff. Sm. 118—119° (J. pr. [2] 65, 446 C. 1902 [2] 38).
- 12)  $\alpha$ -[2-Methylphenyl]azo- $\alpha$ -[4-Methylphenyl]- $\beta$ -Phenylharnstoff. Sm. 117—118° (J. pr. [2] 65, 439 C. 1902 [2] 37).
- 13)  $\alpha$ -[4-Methylphenyl]azo- $\alpha$ -[3-Methylphenyl]- $\beta$ -Phenylharnstoff. Sm. 115° u. Zers. (J. pr. [2] 65, 425 C. 1902 [2] 36).
- $C_{21}H_{20}O_4N_2$  3) Propylester d. Dianhydriacetylanthranilsäure. Sm. 251° u. Zers. (B. 35, 3467 C. 1902 [2] 1315).
- $C_{21}H_{20}O_6Br_4$  1) 2,2'-Methylenäther d. 3,6-Dibrom-2,5-Dioxy-1,4-Dimethylbenzol-5-Acetat. Sm. 202° (B. 35, 441 C. 1902 [1] 642).
- $C_{21}H_{20}N_2S$  3)  $\alpha$ -Methyl- $\alpha$ -Phenyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 119—120° (Am. 26, 356).
- 4)  $\alpha$ -Phenyl- $\beta$ -[4-Methyldiphenylmethyl]thioharnstoff. Sm. 159° (C. 1902 [2] 789).
- $C_{21}H_{21}OP$  2) Tri[4-Methylphenyl]phosphinoxid +  $\frac{1}{2}H_2O$ . Sm. 145° (wasserfrei) (A. 315, 80).
- $C_{21}H_{21}OAs$  2) Tri[3-Methylphenyl]arsinoxid. Sm. 170° (A. 321, 218 C. 1902 [2] 47).
- $C_{21}H_{21}O_2N$  4) 1-Naphtylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 102°; Sd. 259° (B. 34, 1852).
- 5) 2-Naphtylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 128° (B. 34, 1853).
- $C_{21}H_{21}O_2N_5$  2)  $\alpha\alpha$ -Di[2-Amidobenzyl]- $\beta$ -[3-Nitrobenzyliden]hydrazin. Sm. 175° (B. 35, 1569 C. 1902 [1] 1207).
- $C_{21}H_{21}O_2As$  1) Methyltriphenylarsenketobetaïn. Sm. 123° (A. 321, 176 C. 1902 [2] 45).
- $C_{21}H_{21}O_3B$  1) Tri[4-Methylphenylester] d. Borsäure. Sm. 40° (A. 315, 42).
- $C_{21}H_{21}O_4N$  3) Dehydrocorybulbin. (HCl, AuCl<sub>3</sub>), HJ + H<sub>2</sub>O (C. 1901 [1] 633).
- $C_{21}H_{21}O_5N$  \*1)  $\alpha$ -Homochelidonin. Sm. 181—182° (C. 1901 [2] 781).
- 4) d-Corycavamin. Sm. 149°. HCl, (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>), HBr, HJ, HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> + 6H<sub>2</sub>O (Ar. 240, 23 C. 1902 [1] 529; Ar. 240, 83 C. 1902 [1] 819).
- 5) i-Corycavamin. Sm. 216—217° (Ar. 240, 90 C. 1902 [1] 820).
- $C_{21}H_{21}O_5Cl$  1) 3,6-Diacetat d. 5-Chlor-1,3,6-Trioxypentanthren-1-Isobutyläther. Sm. 149° (B. 34, 1556).
- $C_{21}H_{21}O_6N$  4)  $\alpha$ -Phenyl- $\alpha$ -Glykocumarsäurenitril. Sm. 175—176° (B. 34, 630).
- $C_{21}H_{21}O_7Br$  1) Diäthylester d. 5-Brom-6-Keto-1,3-Dioxy-1,6-Dihydropentanthren-1-Aethyläther-2,4-Dicarbonsäure. Sm. 135—137° (B. 34, 1550).
- $C_{21}H_{21}O_7P$  \*1) Tri[2-Methoxyphenylester] d. Phosphorsäure. Sm. 98° (B. 35, 3449 C. 1902 [2] 1303).
- $C_{21}H_{21}O_8N$  C 60,7 — H 5,1 — O 30,8 — N 3,4 — M. G. 415.
- 1) Methyl ester d. Usnolsäureacetoxim. Sm. 184° (A. 324, 181 C. 1902 [2] 1512).
- 2) 4-Aethoxylphenylamid d. 3,4,5-Triacetoxylbenzol-1-Carbonsäure. Sm. 133—134° (J. pr. [2] 63, 86).
- $C_{21}H_{21}O_9N_5$  C 54,9 — H 4,6 — O 31,4 — N 9,2 — M. G. 459.
- 1) Semicarbazon d. Cetrarsäure (Ar. 240, 546 C. 1902 [2] 1329).
- $C_{21}H_{21}O_{10}N$  C 56,4 — H 4,7 — O 35,8 — N 3,1 — M. G. 447.
- 1) Acetat d. Nitrooxydihydrotrimethylbrasilon. Sm. 150—155° (Soc. 81, 1050 C. 1902 [2] 749).
- $C_{21}H_{21}Cl_2P$  1) Tri[4-Methylphenyl]phosphindichlorid (A. 315, 79).



- $C_{21}H_{21}Cl_2P$  2) Methyl-4-Chlorphenyl-di[4-Methylphenyl]phosphoniumchlorid +  $4H_2O$ . Sm. 72°.  $2 + PtCl_4$  (A. 315, 96).
- $C_{21}H_{21}Cl_2As$  \*1) Tri[4-Methylphenyl]arsindichlorid. Sm. 228–230° (A. 321, 202 C. 1902 [2] 46).
- $C_{21}H_{21}Br_2As$  1) Tri[4-Methylphenyl]arsindibromid. Sm. 245° (A. 321, 203 C. 1902 [2] 46).
- $C_{21}H_{21}J_2As$  2) Tri[4-Methylphenyl]arsindijodid. Sm. 172° (A. 321, 203 C. 1902 [2] 46).
- $C_{21}H_{21}J_4As$  1) Tri[4-Methylphenyl]arsintetrajodid. Sm. 153° (A. 321, 203 C. 1902 [2] 46).
- $C_{21}H_{21}SP$  2) Tri[4-Methylphenyl]phosphinsulfid. Sm. 182° (A. 315, 82).
- $C_{21}H_{21}SAs$  2) Tri[3-Methylphenyl]arsinsulfid. Sm. 186° (A. 321, 218 C. 1902 [2] 47).
- 3) Tri[4-Methylphenyl]arsinsulfid. Sm. 170–171° (A. 321, 204 C. 1902 [2] 46).
- $C_{21}H_{21}PSe$  2) Tri[4-Methylphenyl]phosphinselenid. Sm. 193° (A. 315, 83).
- $C_{21}H_{23}O_2N_2$  \*1) Strychnin. ( $2HCl$ ,  $TiCl_3$ ) (B. 35, 2771 C. 1902 [2] 980).
- 4) 8-[1-Piperidyl]-1-Dimethylamido-9,10-Anthrachinon. Sm. 169° (D.R.P. 136777 C. 1902 [2] 1375).
- $C_{21}H_{23}O_4N_2$  2) Dibenzoat d. 3-Oximido-1-Hydroxylamido-1-Methylhexahydrobenzol. Fl. (B. 35, 1171 C. 1902 [1] 1009).
- $C_{21}H_{23}O_4N_4$  C 64,0 — H 5,6 — O 16,2 — N 14,2 — M. G. 394.
- 1) Dimethylester d. 5-[ $\alpha$ -Phenylhydrazonäthyl]-4-Phenyl-4,5-Dihydropyrazol-3,5-Dicarbonsäure. Zers. bei 155–157° (B. 35, 785 C. 1902 [1] 760).
- $C_{21}H_{23}O_6N_2$  C 63,3 — H 5,5 — O 24,1 — N 7,0 — M. G. 398.
- 1) Dimethylester d. 4,4'-Di[Acetylamido]diphenylmethan-3,3'-Dicarbonsäure. Sm. 161–163° (J. pr. [2] 63, 250).
- $C_{21}H_{22}ClJ$  1) 4-Isoamylphenyl-1-Naphtyljodoniumchlorid. Sm. 152°.  $+ HgCl_2$ ,  $2 + PtCl_4$  (B. 34, 3686).
- $C_{21}H_{22}ClAs$  1) Methylphenyl-di[4-Methylphenyl]arsoniumchlorid.  $2 + PtCl_4$  (A. 321, 196 C. 1902 [2] 46).
- 2) Aethyldiphenyl-4-Methylphenylarsoniumchlorid.  $2 + PtCl_4$  (A. 321, 190 C. 1902 [2] 46).
- $C_{21}H_{22}BrJ$  1) 4-Isoamylphenyl-1-Naphtyljodoniumbromid. Sm. 156° (B. 34, 3686).
- $C_{21}H_{22}JAs$  1) Methylphenyl-di[4-Methylphenyl]arsoniumjodid. Sm. 84° (A. 321, 195 C. 1902 [2] 46).
- 2) Aethyldiphenyl-4-Methylphenylarsoniumjodid. Fl. (A. 321, 190 C. 1902 [2] 46).
- $C_{21}H_{23}OJ$  1) 4-Isoamylphenyl-1-Naphtyljodoniumhydroxyd. Salze siehe (B. 34, 3686).
- $C_{21}H_{23}O_2N_5$  C 66,8 — H 6,1 — O 8,5 — N 18,6 — M. G. 377.
- 1) Methylrubazonsäure (B. 35, 1436 C. 1902 [1] 1230).
- $C_{21}H_{23}O_2As$  1) Tri[4-Methylphenyl]oxyarsoniumhydroxyd. Sm. 96° (A. 321, 203 C. 1902 [2] 46).
- $C_{21}H_{23}O_4N$  7) Corydin (oder  $C_{21}H_{25}O_4N$ ). Sm. 129–130°.  $HCl$ ,  $HBr$ ,  $HNO_3$  (Ar. 240, 94 C. 1902 [1] 820).
- $C_{21}H_{23}O_5N$  \*1)  $\beta$ -Homochelidonin. Sm. 168° (C. 1901 [2] 781, 782, 783).
- \*2) Cryptopin. Sm. 217°.  $HCl + 6H_2O$  (Ar. 240, 91 C. 1902 [1] 820).
- 5)  $\gamma$ -Homochelidonin. Sm. 169°.  $+ \frac{1}{2}C_2H_6O$ , ( $2HCl$ ,  $PtCl_4$ ), ( $HCl$ ,  $AuCl_3$ ) (C. 1901 [2] 781, 782, 784).
- $C_{21}H_{23}O_6N_5$  C 57,1 — H 5,2 — O 21,8 — N 15,9 — M. G. 441.
- 1) Diäthylester d.  $\alpha$ -[4-Nitrophenyl]azo- $\beta$ -Phenylhydrazonpropan- $\alpha\gamma$ -Dicarbonsäure. Sm. 160° (B. 34, 84).
- $C_{21}H_{23}O_7Br$  1) Acetat d. Bromkatechintetramethyläther. Sm. 172° (B. 35, 2411 C. 1902 [2] 448).
- $C_{21}H_{23}O_8N$  2) 2,4,6,3'-Tetramethyläther-4'-Aethyläther d. 2,4,6,3',4'-Pentaoxydibenzoyloximidomethan. Sm. 170° u. Zers. (B. 34, 1450).
- $C_{21}H_{24}ON_2$  \*4) Strychnidin (B. 34, 3294).
- 7)  $\gamma$ -Keto- $\alpha\delta$ -Di[4-Dimethylamidophenyl]- $\alpha\delta$ -Pentadien. Sm. 191° Pikrat (B. 35, 3576 C. 1902 [2] 1384).
- $C_{21}H_{24}O_3N_2$  11) 1,3-Di[Benzoylamido]-1-Methylhexahydrobenzol. Sm. 247–270° (B. 35, 1172 C. 1902 [1] 1009).
- 12) Phenylhydrazonchromosantonin. Sm. 220° (G. 32 [1] 341 C. 1902 [1] 1406).

- $C_{21}H_{24}O_2N_2$  13) Acetylalloeinonin. Sm. 92—94° (*M.* 23, 444 *C.* 1902 [2] 376).
- $C_{21}H_{24}O_2N_2$  4) Diäthylester d. Carbonyldi[Phenylamidessigsäure]. Sm. 57° (*C.* 1901 [2] 69).
- $C_{21}H_{24}N_3As$  1) Tri[*p*-Amido-4-Methylphenyl]arsin. Sm. 198°. 3HCl, 3H<sub>2</sub>SO<sub>4</sub> (*A.* 321, 213 *C.* 1902 [2] 47).
- $C_{21}H_{25}O_3N_3$  2) Amidoformylchinin. Sm. 210° (D.R.P. 128116 *C.* 1902 [1] 518).
- $C_{21}H_{25}O_3N$  \*1) Corybulbin (*Soc.* 79, 88; *Ar.* 240, 19 *C.* 1902 [1] 529).
- 10) d-Corybulbin (*C.* 1901 [1] 633).
- 11) i-Corybulbin. Sm. 220° (*C.* 1901 [1] 634).
- 12) Isocorybulbin. Sm. 179—180° (*Ar.* 240, 50 *C.* 1902 [1] 530).
- 13) Glaucin. Sm. 119—120°. HCl + 3H<sub>2</sub>O, HBr (*C.* 1901 [2] 781, 782).
- $C_{21}H_{26}OS_2$  1) Diphenyläther d.  $\beta\zeta$ -Dimerkapto- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Fl. (*B.* 35, 816 *C.* 1902 [1] 757).
- $C_{21}H_{26}O_2N_2$  \*5) Tetrahydrostrychnin (*B.* 34, 3293).
- 18)  $\alpha\eta$ -Di[Benzoylamido]heptan. Sm. 123,5° (*J. r.* 28, 563). — \*II, 734.
- 19) Di[Phenylamid] d. Heptan- $\alpha$ -Dicarbonsäure. Sm. 145° (*Soc.* 65, 992). — \*II, 215.
- 20) Verbindung (aus 4-Amido-1,3-Dimethylbenzol u. Brenztraubensäure). Sm. 232° (*A. ch.* [7] 9, 478). — \*II, 313.
- $C_{21}H_{26}O_2N_4$  2) 1,3-Di[ $\beta$ -Phenylureido]-1-Methylhexahydrobenzol. Sm. 210—240° (*B.* 35, 1172 *C.* 1902 [1] 1009).
- $C_{21}H_{26}O_2S_2$  1) Äthylester d.  $\gamma\gamma$ -Dimerkaptovalerianidibenzyläthersäure. Fl. (*B.* 34, 2653).
- 2) Äthylester d.  $\beta\beta$ -Dimerkapto- $\alpha$ -Methylbutterdibenzyläthersäure. Sm. 78° (*B.* 34, 2660).
- $C_{21}H_{26}O_3N_2$  3) Phenylhydrazon d. Isophotosantonsäurelaktone. Sm. 239° u. Zers. (*G.* 32 [1] 318 *C.* 1902 [1] 1405).
- $C_{21}H_{26}O_3S$  1)  $\gamma$ -Amylsulfon- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylbutan. Sm. 143—144° (*B.* 35, 811 *C.* 1902 [1] 756).
- $C_{21}H_{26}O_3S_2$  1)  $\beta\zeta$ -Di[Phenylsulfon]- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Sm. 160° (*B.* 35, 816 *C.* 1902 [1] 757).
- 2)  $\alpha\epsilon$ -Di[Aethylsulfon]- $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpentan. Sm. 140—142° (*B.* 34, 1401; *B.* 35, 812 *C.* 1902 [1] 756).
- $C_{21}H_{26}O_3S_2$  1)  $\gamma\gamma$ -Di[Benzylsulfon]valeriansäure. Sm. 118—119° (*B.* 34, 2653).
- 2) Äthylester d.  $\beta\beta$ -Di[Benzylsulfon]- $\alpha$ -Methylbutterssäure. Sm. 130° (*B.* 34, 2661).
- $C_{21}H_{26}NJ$  1) Jodäthylat d. 1,3,4,6,7,9-Hexamethylakridin. Sm. 214—215° (*Soc.* 81, 288 *C.* 1902 [1] 528, 811, 812).
- $C_{21}H_{27}O_4N$  \*4) r-Laudanosin (*J. pr.* [2] 65, 43 *C.* 1902 [1] 479).
- $C_{21}H_{27}O_7N$  2) Diäthylester d. 5-Keto-1-Phenylamidoformoxyl-1,3-Dimethylhexahydrobenzol-2,4-Dicarbonsäure. Sm. 210° (*A.* 323, 102 *C.* 1902 [2] 785).
- $C_{21}H_{28}O_6S_3$  1)  $\alpha\alpha\beta$ -Tri[Aethylsulfon]- $\alpha\gamma$ -Diphenylpropan. Sm. 125° (*B.* 34, 1405).
- $C_{21}H_{31}O_2N$  C 76,6 — H 9,4 — O 9,7 — N 4,3 — M. G. 329.
- 1) Menthylester d.  $\beta$ -Benzylamidoacetoinsäure. Sm. 85—86° (*C.* 1902 [2] 208).
- $C_{21}H_{31}N_2J$  3) Jodmethylester d. Dicumphenisopyrazin. Zers. bei 260° (*B.* 35, 3668 *C.* 1902 [2] 1464).
- $C_{21}H_{34}O_6N_3$  \*1) Säure (aus Fibrin) (*C.* 1901 [1] 1205).
- $C_{21}H_{34}N_2Cl_2$  1) Trimethylen-*o*-Xylylendipiperidylumchlorid. + PtCl<sub>4</sub>, 2 + AuCl<sub>3</sub> (*B.* 35, 3054 *C.* 1902 [2] 1127).
- 2) Trimethylen-*p*-Xylylendipiperidylumchlorid. + PtCl<sub>4</sub>, 2 + AuCl<sub>3</sub> (*B.* 35, 3055 *C.* 1902 [2] 1127).
- $C_{21}H_{36}O_{10}N_6$  \*1) Säure (aus Fibrin) (*C.* 1901 [1] 1205).
- $C_{21}H_{40}N_2S$  1) s-Dimethylthioharnstoff. Sm. 200° (*B.* 35, 832 *C.* 1902 [1] 713).

- $C_{21}H_{19}O_4NS$  1) Verbindung (aus 1-*p*-Tolylamido-9,10-Anthrachinon-2-Sulfonsäure). (D.R.P. 126444 *C.* 1902 [1] 79).
- $C_{21}H_{19}ON_3S$  1) Benzoat d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 138,5° (*Am.* 27, 265 *C.* 1902 [1] 1299).
- $C_{21}H_{16}O_9N_3S_3$  1) 1,3,5-Tribenzoyl-R-Trisulfimid? Sm. 112° (*B.* 34, 3445).

- $C_{21}H_{16}ON_2S$  1) 2-Phenylimido-4-Keto-5,5-Diphenyltetrahydrothiazol. Sm. 250° (C. 1902 [2] 578).
- $C_{21}H_{16}O_2N_3S$  1) s-Di[7-Oxy-2-Naphtyl]thioharnstoff (C. 1901 [1] 70).
- $C_{21}H_{16}O_4N_4S$  1) 4-Phenylazo-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol-4'-Sulfonsäure. Sm. 275° u. Zers. (B. 35, 929 C. 1902 [1] 807).
- $C_{21}H_{16}O_3N_2S_2$  1) s-Di[5-Oxy-2-Naphtyl]thioharnstoff-7,7'-Disulfonsäure (C. 1901 [1] 70).
- 2)  $\alpha$ -[5-Oxy-2-Naphtyl]- $\beta$ -[5-Oxy-1-Naphtyl]thioharnstoff- $\alpha^7, \beta^7$ -Disulfonsäure (C. 1901 [2] 839).
- 3)  $\alpha$ -[5-Oxy-2-Naphtyl]- $\beta$ -[8-Oxy-2-Naphtyl]thioharnstoff- $\alpha^7, \beta^6$ -Disulfonsäure (C. 1901 [2] 750, 839).
- $C_{21}H_{16}O_9N_2S_2$  1) s-Di[5-Oxy-1-Naphtyl]harnstoff-7,7'-Disulfonsäure (C. 1901 [1] 70).
- 2) s-Di[5-Oxy-2-Naphtyl]harnstoff-7,7'-Disulfonsäure (C. 1901 [1] 70).
- 3) s-Di[8-Oxy-2-Naphtyl]harnstoff-6,6'-Disulfonsäure (C. 1901 [1] 70).
- 4)  $\alpha$ -[5-Oxy-2-Naphtyl]- $\beta$ -[5-Oxy-1-Naphtyl]harnstoff- $\alpha^7, \beta^7$ -Disulfonsäure (C. 1901 [2] 750).
- 5)  $\alpha$ -[5-Oxy-2-Naphtyl]- $\beta$ -[8-Oxy-2-Naphtyl]harnstoff- $\alpha^7, \beta^6$ -Disulfonsäure (C. 1901 [2] 750).
- $C_{21}H_{17}ONS_2$  1) 1,2-Diphenyl-3-Benzylimidoxanthid. Sm. 72—73° (B. 35, 2472 C. 1902 [2] 441).
- $C_{21}H_{17}O_2N_2Cl$  3) 5-Chlor-2,4-Di[Benzoylamido]-1-Methylbenzol. Sm. 205° (Soc. 81, 96 C. 1902 [1] 186).
- $C_{21}H_{17}O_5NS$  1) Dibenzoylderivat d. 4-Methylphenylsulfonhydroxylamin. Sm. 120° (J. pr. [2] 63, 177). — \*II, 757.
- $C_{21}H_{17}O_7NS$  1) Di[2-Methylphenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 89—90° (Am. 25, 14).
- 2) Di[4-Methylphenylester] d. 4-Nitrobenzol-1-Carbonsäure-2-Sulfonsäure. Sm. 117° (Am. 25, 15).
- $C_{21}H_{17}O_3N_3S_2$  1)  $\alpha$ -Imido- $\alpha\alpha$ -Di[5-Oxy-1-Naphtylamido]methan-7,7'-Disulfonsäure (D.R.P. 129417 C. 1902 [1] 789).
- 2)  $\alpha$ -Imido- $\alpha\alpha$ -Di[8-Oxy-2-Naphtylamido]methan-6,6'-Disulfonsäure (D.R.P. 129417 C. 1902 [1] 789).
- 3)  $\alpha$ -Imido- $\alpha\alpha$ -Di[5-Oxy-2-Naphtylamido]methan-7,7'-Disulfonsäure (D.R.P. 129417 C. 1902 [1] 789).
- 4)  $\alpha$ -Imido- $\alpha\alpha$ -Di[4-Oxy-2-Naphtylamido]methan-8,8'-Disulfonsäure (D.R.P. 129417 C. 1902 [1] 789).
- 5)  $\alpha$ -Imido- $\alpha$ -[7-Sulfo-5-Oxy-1-Naphtylamido]- $\alpha$ -[7-Sulfo-5-Oxy-2-Naphtylamido]methan (D.R.P. 129418 C. 1902 [1] 790).
- 6)  $\alpha$ -Imido- $\alpha$ -[7-Sulfo-5-Oxy-2-Naphtylamido]- $\alpha$ -[7-Sulfo-8-Oxy-2-Naphtylamido]methan (D.R.P. 129418 C. 1902 [1] 790).
- $C_{21}H_{18}ON_2S$  1) Benzyläther d. Benzoylphenylamidoimidomerkaptomethan (uns-Benzoylphenylpsendobenzylthioharnstoff). Sm. 92—92,5° (Am. 27, 279 C. 1902 [1] 1300).
- 2) Benzyläther d. Benzoylimidophenylamidomerkaptomethan (Benzoylphenylthiolbenzylpsendothioharnstoff). Sm. 116—117° (Am. 26, 416).
- $C_{21}H_{18}O_4N_4S_2$  1) Di[2-Nitrobenzyläther] d. Phenylhydrazondimerkaptomethan. Sm. 94—95° (B. 34, 1124).
- 2) Di[4-Nitrobenzyläther] d. Phenylhydrazondimerkaptomethan. Sm. 148° (B. 34, 1123).
- 3) 2-Nitrobenzyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkaptomethan. Sm. 81° (B. 34, 1126).
- 4) isom. 2-Nitrobenzyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkaptomethan. Sm. 107° (B. 34, 1126).
- $C_{21}H_{18}O_6N_3As$  1) Tri[ $\beta$ -Nitro-4-Methylphenyl]arsin. Sm. 201° (A. 321, 212 C. 1902 [2] 47).
- $C_{21}H_{18}O_7N_3P$  2) Tri[2- oder 3-Nitro-4-Methylphenyl]phosphinoxid. Sm. 153° (A. 315, 80).
- $C_{21}H_{18}O_7N_3As$  1) Tri[ $\beta$ -Nitro-4-Methylphenyl]arsinoxid. Sm. 212° (A. 321, 211 C. 1902 [2] 47).

- $C_{21}H_{19}O_2NS_2$  1) Dibenzyläther d.  $\alpha\alpha$ -Dimerkapto- $\alpha$ -[3-Nitrophenyl]methan. Sm. 56° (*B.* 35, 2348 *C.* 1902 [2] 516).  
2) Dibenzyläther d.  $\alpha\alpha$ -Dimerkapto- $\alpha$ -[4-Nitrophenyl]methan. Sm. 72—74° (*B.* 35, 2348 *C.* 1902 [2] 516).
- $C_{21}H_{19}O_2N_3S_2$  1) Benzyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkaptomethan. Sm. 98° (*B.* 34, 1126).  
2) isom. Benzyläther-4-Nitrobenzyläther d. Phenylhydrazondimerkaptomethan. Sm. 103° (*B.* 34, 1126).
- $C_{21}H_{19}O_2Cl_3As$  1) Aethylester d. Triphenylarsindichlorid-4-Carbonsäure. Sm. 133° (*A.* 321, 191 *C.* 1902 [2] 46).
- $C_{21}H_{19}O_3NBr_4$  1) 3, 6-Dibrom-4-Acetoxy-2, 5-Dimethylbenzyläther d. 3, 6-Dibrom-5-Oxy-2-Cyanmethyl-1, 4-Dimethylbenzol. Sm. 242—243° (*B.* 34, 4282 *C.* 1902 [1] 309). — \*II, 934.
- $C_{21}H_{19}O_6NS_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -[2-Nitrophenyl]methan. Sm. 188—190° (*B.* 35, 2347 *C.* 1902 [2] 516).  
2)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -[3-Nitrophenyl]methan. Sm. 194° (*B.* 35, 2348 *C.* 1902 [2] 516).  
3)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -[4-Nitrophenyl]methan. Sm. 244° (*B.* 35, 2348 *C.* 1902 [2] 516).  
4) Benzoat d. Di[4-Methylphenylsulfon]hydroxylamin. Sm. 186° (*J. pr.* [2] 63, 174). — \*II, 757.
- $C_{21}H_{20}ON_3Cl$  1) 3-Dimethylamido-9-Phenylamido-4-Methylphenoxazoniumchlorid (*C.* 1902 [2] 458).
- $C_{21}H_{20}OClAs$  1)  $\beta$ -Ketopropyltriphenylarsoniumchlorid. Sm. 172°. 2 +  $PtCl_4$  (*A.* 321, 176 *C.* 1902 [2] 45).
- $C_{21}H_{20}OBrAs$  1)  $\beta$ -Ketopropyltriphenylarsoniumbromid. Sm. 165° (*A.* 321, 177 *C.* 1902 [2] 45).
- $C_{21}H_{20}OJAs$  1)  $\beta$ -Ketopropyltriphenylarsoniumjodid. Sm. 161° (*A.* 321, 178 *C.* 1902 [2] 45).
- $C_{21}H_{20}O_8N_3As$  1) Tri[ $\beta$ -Nitro-4-Methylphenyl]oxyarsoniumhydrat. 2 Nitrat (*A.* 321, 312 *C.* 1902 [2] 47).
- $C_{21}H_{21}O_3N_2Br$  1) Phenylhydrazon d. Verb.  $C_{15}H_{15}O_4Br$ . Zers. bei 150° (*C.* 1901 [1] 114).
- $C_{21}H_{21}O_6NS_2$  1) Tri[4-Methylphenylsulfon]amin. Sm. 184° (*J. pr.* [2] 63, 175).
- $C_{21}H_{21}N_6S_3P$  1) Phosphortri[Phenylthioharnstoff] (*Soc.* 79, 546).
- $C_{21}H_{21}ClJP$  1) Methyl-4-Chlorphenyldi[4-Methylphenyl]phosphoniumjodid +  $H_2O$ . Sm. 135° (*A.* 315, 95).
- $C_{21}H_{22}OClAs$  1) Tri[3-Methylphenyl]arsinooxychlorid. Sm. 205° (*A.* 321, 217 *C.* 1902 [2] 47).  
2) Tri[4-Methylphenyl]arsinooxychlorid. Sm. 185° (*A.* 321, 202 *C.* 1902 [2] 46).
- $C_{21}H_{22}OBrAs$  1) Tri[3-Methylphenyl]arsinooxybromid. Sm. 190° (*A.* 321, 218 *C.* 1902 [2] 47).
- $C_{21}H_{22}O_3ClBr$  1)  $\alpha$ -Valerylchlorbromdiphenacyl. Sm. 146° (*B.* 34, 1612).  
2)  $\beta$ -Valerylchlorbromdiphenacyl. Sm. 101° (*B.* 34, 1612).
- $C_{21}H_{22}O_4N_3S_2$  1) Di[2-Methylphenylamid] d. 1-Methylbenzol-2, 4-Disulfonsäure. Sm. 170—171° (*B.* 35, 1960 *C.* 1902 [2] 111).  
2) Di[3-Methylphenylamid] d. 1-Methylbenzol-2, 4-Disulfonsäure. Sm. 138° (*B.* 35, 1960 *C.* 1902 [2] 111).
- $C_{21}H_{23}O_3N_3Cl$  1) Chlorformylechinin. Sm. 187° (*C.* 1901 [2] 865).
- $C_{21}H_{23}ON_3P$  3) Tri[2- oder 3-Amido-4-Methylphenyl]phosphinoxid. Sm. 235° (*A.* 315, 81).
- $C_{21}H_{24}O_6NJ$  2) Jodäthylat d. Stylopin. Sm. 255° (*B.* 35, 17 *C.* 1902 [1] 430).
- $C_{21}H_{24}N_3SAs$  1) Tri[ $\beta$ -Amido-4-Methylphenyl]arsinsulfid. 2 +  $3H_2SO_4$  (*A.* 321, 214 *C.* 1902 [2] 47).
- $C_{21}H_{25}O_6BrS_2$  1)  $\beta$ -Brom- $\alpha\epsilon$ -Di[Phenylsulfon]- $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 173° (*B.* 34, 1402; *B.* 35, 812 *C.* 1902 [1] 756).
- $C_{21}H_{25}ON_2J_2$  6) Di[Jodmethylat] d. Allocinchonin. Sm. 235° (*M.* 23, 450 *C.* 1902 [2] 376).

— 21 V —

$C_{21}H_{15}O_6N_3Cl_5As$  1) Tri[ $\beta$ -Nitro-4-Methylphenyl]arsindichlorid. Sm. 170° (*A.* 321, 213 *C.* 1902 [2] 47).

$C_{21}H_{21}ON_6S_3P$  1) Phosphoryltri[Phenylthioharnstoff]. Sm. 111—112° (*Soc.* 79, 549).

C<sub>22</sub>-Gruppe.

- C<sub>22</sub>H<sub>22</sub> 4) Tri[4-Methylphenyl]methan. Sm. 63,5° (B. 35, 2399 C. 1902 [2] 520).  
 C<sub>22</sub>H<sub>44</sub> C 85,7 — H 14,3 — M. G. 308.  
 1) Kohlenwasserstoff (aus Petroleum). Sd. 240—242°<sub>50</sub> (Am. 28, 186 C. 1902 [2] 1082).  
 C<sub>22</sub>H<sub>46</sub> \*1) Dokosan. Sd. 240—242°<sub>50</sub> (Am. 28, 186 C. 1902 [2] 1082).

## — 22 II —

- C<sub>22</sub>H<sub>14</sub>O<sub>4</sub> C 77,2 — H 4,1 — O 18,7 — M. G. 342.  
 1) Benzoat d. 7-Oxy-4-Phenyl-1,2-Benzpyron. Sm. 136° (B. 34, 357).  
 2) Di[1-Naphtylester] d. Oxalsäure. Sm. 161° (B. 35, 3447 C. 1902 [2] 1303).  
 3) Di[2-Naphtylester] d. Oxalsäure. Sm. 191° (B. 35, 3448 C. 1902 [2] 1303).  
 C<sub>22</sub>H<sub>14</sub>O<sub>6</sub> 5) Monoäthyläther d. Cörolein (Am. 26, 145).  
 C<sub>22</sub>H<sub>14</sub>N<sub>4</sub> 2) 1,4-Di[α-Cyanbenzylimido]benzol. Sm. 233° (B. 35, 3340 C. 1902 [2] 1193).  
 C<sub>22</sub>H<sub>15</sub>N<sub>3</sub> 6) Phenylhydrazonchinolylenphenylenmethan. Sm. 183° (B. 34, 2470).  
 7) Phenylamido-ββ-Naphtophenazin. Sm. 129—155° (A. 319, 263 C. 1902 [1] 359).  
 C<sub>22</sub>H<sub>16</sub>O \*1) 2,3,5-Triphenylfuran. Sm. 92—93° (A. 302, 214; Soc. 79, 1023).  
 \*2) Anhydro-αα-Di[2-Oxy-1-Naphtyl]äthan. Sm. 174° (Bl. [3] 25, 579).  
 C<sub>22</sub>H<sub>16</sub>O<sub>2</sub> 8) 7-Oxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. HCl + 2H<sub>2</sub>O, Pikrat (B. 35, 1519 C. 1902 [1] 1209).  
 C<sub>22</sub>H<sub>16</sub>O<sub>3</sub> 9) 5,7-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. HCl + H<sub>2</sub>O, Pikrat (B. 35, 1803 C. 1902 [2] 117).  
 10) 6,7-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Zers. bei 170°. HCl + 1½H<sub>2</sub>O, H<sub>2</sub>SO<sub>4</sub> + 3H<sub>2</sub>O, Pikrat (B. 35, 1805 C. 1902 [2] 118).  
 11) 7,8-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. HCl + H<sub>2</sub>O, Pikrat (B. 35, 1800 C. 1902 [2] 117).  
 12) Dimethylfluoran. HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>, 2H<sub>2</sub>SO<sub>4</sub> (Soc. 81, 665 C. 1902 [1] 1296).  
 13) Acetat d. 9-Keto-4-[α-Oxybenzyl]fluoren? Sm. 121° (M. 23, 42 C. 1902 [1] 876).  
 C<sub>22</sub>H<sub>16</sub>O<sub>5</sub> \*8) Äthylester d. Fluorescein. Sm. 242° (B. 34, 2641).  
 C<sub>22</sub>H<sub>16</sub>O<sub>7</sub> 3) Äthyläther d. Dioxyfluorescein. Sm. 326° (B. 34, 2639).  
 4) Äthylester d. Gallein (Am. 26, 131).  
 5) Triacetat d. Verb. C<sub>16</sub>H<sub>16</sub>O<sub>4</sub>. Sm. 245° (B. 35, 1675 C. 1902 [1] 1355).  
 C<sub>22</sub>H<sub>16</sub>O<sub>9</sub> C 62,2 — H 3,8 — 34,0 — M. G. 424.  
 1) Dioxyfluorescein (aus Hemipinsäure) (B. 35, 1785 C. 1902 [2] 53).  
 C<sub>22</sub>H<sub>16</sub>N<sub>2</sub> 6) 1,2-Xylophenanthrazin. Sm. 223—224° (B. 35, 641 C. 1902 [1] 750).  
 7) 1,3-Xylophenanthrazin. Sm. 206—207° (B. 35, 642 C. 1902 [1] 750).  
 8) 1,4-Xylophenanthrazin. Sm. 285—286° (B. 35, 642 C. 1902 [1] 750).  
 9) 2,3-Xylophenanthrazin. Sm. 291—292° (B. 35, 642 C. 1902 [1] 750).  
 C<sub>22</sub>H<sub>15</sub>O \*3) γ-Keto-αβδ-Triphenyl-α-Buten. Sm. 86° (M. 22, 668).  
 C<sub>22</sub>H<sub>15</sub>O<sub>2</sub> \*3) 2,2-Dinaphtyläther d. αα-Dioxyäthan. Sm. 201° (Bl. [3] 25, 579).  
 15) 2-Methylphenylester d. αβ-Diphenylakrylsäure. Sm. 130° (G. 32 [1] 181 C. 1902 [1] 1054).  
 C<sub>22</sub>H<sub>15</sub>O<sub>3</sub> 7) Benzoat d. Oxydimethyldiphenylketon C<sub>15</sub>H<sub>14</sub>O<sub>2</sub> (CH<sub>3</sub>:CH<sub>3</sub>:OH = 1:2:4). Sm. 110° (G. 32 [1] 500 C. 1902 [2] 581).  
 C<sub>22</sub>H<sub>15</sub>O<sub>6</sub> 11) Verbindung (aus d. Wurzelrinde von Piscidia Erythrina L.). Sm. 216° (Am. 25, 403).  
 C<sub>22</sub>H<sub>15</sub>O<sub>7</sub> 4) Triacetat d. Verb. C<sub>16</sub>H<sub>12</sub>O<sub>4</sub> (aus Brasileïn). Sm. 190—195° (M. 23, 169 C. 1902 [1] 1105).  
 C<sub>22</sub>H<sub>15</sub>O<sub>9</sub> 3) Triacetat d. Verb. C<sub>16</sub>H<sub>12</sub>O<sub>6</sub> (aus Apiin). Sm. 215° (G. 31 [1] 75).  
 C<sub>22</sub>H<sub>15</sub>N<sub>2</sub> 10) 1,3-Diphenyl-5-Benzylpyrazol. Sm. 76° (B. 34, 1484).  
 11) 2,4,6-Triphenyl-3,4-Dihydro-1,3-Diazin. Sm. 186—187° (B. 35, 1369 C. 1902 [2] 1216).  
 C<sub>22</sub>H<sub>15</sub>N<sub>4</sub> 5) 1,4-Di[α-Cyanbenzylamido]benzol. Sm. 163° (B. 35, 3339 C. 1902 [2] 1193).



- $C_{22}H_{18}N_4$  6) 4-Phenylazo-3-Methyl-1,5-Diphenylpyrazol. Sm. 136,5° (B. 35, 3317 C. 1902 [2] 1110).
- $C_{22}H_{20}O_3$  7) 2-[ $\alpha$ -Phenylhydrazonäthyl]-3-Phenyl-1,4-Benzdiazin. Sm. 183° (B. 35, 3317, 3318 C. 1902 [2] 1110).
- $C_{22}H_{20}O_4$  4) Methylester d. 4-Oxytriphenylessigmethyläthersäure. Sm. 138 bis 139° (B. 34, 3067).
- $C_{22}H_{20}O_7$  9) 1,3-Diphenyl-1-R-Tetramethylen-2,4-Di[Äthenyl- $\beta$ -Carbonsäure]. Sm. 204°, Ag<sub>2</sub> (B. 35, 2415 C. 1902 [2] 445).
- $C_{22}H_{20}O_7$  \*3) Acetat d. Dehydrohämatoxylintetramethyläther (Soc. 81, 1062 C. 1902 [2] 750).
- $C_{22}H_{20}O_8$  5) Verbindung (aus d. Verb.  $C_{23}H_{20}O_7$ ). Sm. 136° (Am. 25, 402).
- $C_{22}H_{20}O_8$  3) Diacetat d. Verb.  $C_{18}H_{16}O_6$ . Sm. 177—178° (Am. 25, 410).
- $C_{22}H_{20}N_2$  4) Verbindung (aus d. Verb.  $C_{23}H_{20}O_7$ ). Sm. 159° (Am. 25, 401).
- $C_{22}H_{20}N_4$  11)  $\alpha$ -Phenylhydrazon- $\alpha\gamma$ -Diphenyl- $\beta$ -Methylpropan. Sm. 127—128° (Soc. 79, 935).
- $C_{22}H_{21}N_6$  2)  $\beta$ -[ $\alpha$ -Imidobenzyl] imido- $\alpha$ -Phenylhydrazon- $\alpha$ -[4-Methylphenyl]-methan. Sm. 176° (B. 34, 3027).
- $C_{22}H_{21}N_6$  C 74,4 — H 5,9 — N 19,7 — M. G. 355.
- $C_{22}H_{21}Cl$  1) 3,5-Di[Phenylimido]-4-Phenyl-1,2-Dimethyltetrahydro-1,2,4-Triazol. Sm. 182° (B. 35, 1722 C. 1902 [2] 31).
- $C_{22}H_{22}O$  1)  $\alpha$ -Chlortri[4-Methylphenyl]methan. + FeCl<sub>3</sub>, + ZnCl<sub>2</sub>, + HgCl<sub>2</sub> (C. 1901 [1] 1162; B. 35, 1838 C. 1902 [2] 213).
- $C_{22}H_{22}O_3$  3)  $\alpha$ -Oxytri[4-Methylphenyl]methan (C. 1901 [1] 1162).
- $C_{22}H_{22}O_3$  2) Trimethyläther d. Tri[4-Oxyphenyl]methan (Trianisylmethan). Sm. 45—47°; Sd. 275—280°<sub>13</sub> (B. 35, 1197 C. 1902 [1] 1005).
- $C_{22}H_{22}O_4$  3) 2,2',2''-Trimethyläther d.  $\alpha$ -Oxytri[2-Oxyphenyl]methan. Sm. 181° (B. 35, 3025 C. 1902 [2] 1114).
- $C_{22}H_{22}O_4$  4) 2,2',4''-Trimethyläther d.  $\alpha$ ,2,2',4''-Tetraoxytriphenylmethan. Sm. 109—110° (B. 35, 3027 C. 1902 [2] 1114).
- $C_{22}H_{22}O_8$  5) 3,3',3''-Trimethyläther d.  $\alpha$ -Oxytri[3-Oxyphenyl]methan. Sm. 119,5° (B. 35, 3026 C. 1902 [2] 1114).
- $C_{22}H_{22}O_8$  6) 4,4',4''-Trimethyläther d.  $\alpha$ -Oxytri[4-Oxyphenyl]methan (Trianisylcarbinol). Sm. 83,5—84° (B. 35, 1198 C. 1902 [1] 1006).
- $C_{22}H_{22}O_8$  12) Aloresinotannol (C. 1901 [1] 44).
- $C_{22}H_{22}O_9$  13) Nataloresinotannol (C. 1901 [1] 1319).
- $C_{22}H_{22}S_2$  2) Acetat d. Myricetinpentamethyläther. Sm. 167—170° (Soc. 81, 205 C. 1902 [1] 528).
- $C_{22}H_{23}N$  1) Dibenzyläther d. 1,2-Di[Merkaptomethyl]benzol. Fl. (B. 35, 1396 C. 1902 [1] 1096).
- $C_{22}H_{23}N$  C 87,7 — H 7,6 — N 4,6 — M. G. 301.
- $C_{22}H_{23}As$  1)  $\alpha$ -Propylamidotriphenylmethan. Sm. 70—72° (B. 35, 1828 C. 1902 [2] 212).
- $C_{22}H_{23}As$  2) Dibenzyl-3,5-Dimethylphenylamin. Sm. 83° (C. 1901 [2] 1189).
- $C_{22}H_{24}N_2$  1) Phenyl-di[2,4-Dimethylphenyl]arsin. Sm. 99°. + HgCl<sub>2</sub>, (2HCl, PtCl<sub>4</sub>) (A. 321, 223 C. 1902 [2] 48).
- $C_{22}H_{24}O_2$  3) 1-Oxy-3-Keto-4-Amyl-1,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 57° (Soc. 79, 1041).
- $C_{22}H_{24}O_8$  4) 3-Keto-1-Methyl-2- oder 4-[ $\gamma$ -Keto- $\alpha\gamma$ -Diphenyl]hexahydrobenzol. Sm. 149—151° (B. 35, 1447 C. 1902 [1] 1161).
- $C_{22}H_{24}O_8$  5) Methyläther d. d-2-Oxy-1-Naphtylidencampher. Sm. 78° (C. r. 133, 45).
- $C_{22}H_{24}O_{10}$  3) Evernursäure. Sm. 191—192° u. Zers. (J. pr. [2] 63, 534).
- $C_{22}H_{26}O_2$  2) Homonataloin (C. r. 134, 1586 C. 1902 [2] 370).
- $C_{22}H_{26}O_2$  7) 1,2-Di[4-Methylphenylamidomethyl]benzol. Sm. 112° (B. 34, 1508).
- $C_{22}H_{26}O_2$  6)  $\gamma\delta$ -Diketo- $\epsilon\zeta$ -Diphenyldekan. Sm. 168—169° (B. 35, 969 C. 1902 [1] 871).
- $C_{22}H_{26}O_2$  7)  $\beta\eta$ -Diketo- $\delta\epsilon$ -Diphenyl- $\gamma\zeta$ -Dimethyloktan. Sd. 190—210°<sub>3</sub> (B. 35, 970 C. 1902 [1] 871).
- $C_{22}H_{26}O_4$  8) Methyläther d. d-2-Oxy-1-Naphtylmethylecampher. Sm. 96° (C. r. 133, 45).
- $C_{22}H_{26}O_4$  8) Di[2-Methyl-5-Isopropylphenylester] d. Oxalsäure. Sm. 64° (B. 35, 3446 C. 1902 [2] 1303).
- $C_{22}H_{26}O_4$  9) Di[3-Methyl-6-Isopropylphenylester] d. Oxalsäure. Sm. 61°; Sd. 220—240°<sub>10</sub> (B. 35, 3446 C. 1902 [2] 1303).

- $C_{22}H_{26}O_6$  2) 3'-Methyläther-2,4,4'-Triäthyläther d. 2,4,3,4'-Tetraoxydibenzoyl-methan. Sm. 134—135° (B. 34, 3725 C. 1902 [1] 46).
- $C_{22}H_{26}O_7$  4) 3,4,5-Trimethyläther-2,4-Diäthyläther d.  $\alpha\gamma$ -Diketo- $\alpha$ -[2,4-Dioxyphenyl]- $\gamma$ -[3,4,5-Trioxyphenyl]propan. Sm. 132,5° (B. 35, 2545 C. 1902 [2] 596).
- $C_{22}H_{28}O_8$  3) Tetraäthylester d.  $\delta$ -Phenyl- $\alpha$ -Buten- $\alpha\beta\gamma\gamma$ -Tetracarbonsäure. Sd. 245—246°<sub>15</sub> (Soc. 81, 1214 C. 1902 [2] 888).
- $C_{22}H_{30}N_2$  3) 1,4-Di[2,4,5-Trimethylphenyl]hexahydro-1,4'-Diazin (Dipsendocumylpiperazin). Sm. 148—150° (Soc. 79, 257).
- $C_{22}H_{30}N_4$  \*1)  $\delta\epsilon$ -Di[Phenylhydrazon]- $\beta\eta$ -Dimethyloktan. Sm. 163—164° (G. 31 [1] 462).
- $C_{22}H_{30}J_2$  1) Di[4-Isoamylphenyl]jodoniumjodid. Sm. 68° u. Zers. (B. 34, 3684).
- $C_{22}H_{30}S_3$  1) Triäthyläther d.  $\alpha\alpha\beta$ -Trimerkapto- $\alpha\gamma$ -Diphenylbutan. Fl. (B. 34, 1405).
- $C_{22}H_{34}O_2$  4) Aethylester d. i-Pimarsäure. Sd. 280—285°<sub>11-12</sub> (Soc. 79, 1153).
- $C_{22}H_{36}O_2$  6) Rübentarzsäure + H<sub>2</sub>O. Sm. 299—300° (C. 1898 [1] 621). — \*II, 848.
- $C_{22}H_{36}O_7$  2) Orbicularsäure. Sm. 82° (J. pr. [2] 63, 552).
- $C_{22}H_{37}J$  1) 4-Jod-1-Hexadekylbenzol. Sm. 38° (J. pr. [2] 65, 571 C. 1902 [2] 351).
- $C_{22}H_{38}O_4$  2) Dimethylester d. Oxalsäure. Sm. 67—68°; Sd. 225°<sub>12</sub> (B. 35, 2474 C. 1902 [2] 441).
- $C_{22}H_{38}O_6$  3) 1-Dimethylester d. Oxalsäure (C. 1902 [2] 1238).
- 6) C 66,3 — H 9,5 — O 24,1 — M. G. 398.
- 1) Verbindung (aus Cineol u. Oxalsäure). Zers. bei 50° (B. 35, 1212 C. 1902 [1] 998).
- $C_{22}H_{38}O_9$  \*1) Digitalein (B. 34, 3562).
- $C_{22}H_{40}O_2$  2) 1-Bornylester d. Laurinsäure. Sd. 250°<sub>40</sub> (C. r. 134, 609 C. 1902 [1] 872).
- $C_{22}H_{40}O_6$  2) Verbindung (aus d. Verb. C<sub>36</sub>H<sub>70</sub>O<sub>2</sub>) (C. 1901 [1] 669).
- $C_{22}H_{42}O$  C 82,0 — H 13,0 — O 5,0 — M. G. 322.
- 1)  $\mu$ -Keto- $\alpha$ -Methyl- $\alpha$ -Heneikosen. Sd. 214—216°<sub>10</sub> (B. 35, 2146 C. 1902 [2] 260).
- $C_{22}H_{42}O_2$  \*1) Brassinsäure. Heptylaminsalz (H. 35, 377 C. 1902 [2] 633).
- \*2) Erukasäure. Heptylaminsalz (H. 35, 377 C. 1902 [2] 633).
- $C_{22}H_{42}O_5$  \*2) Diäthylester d. Säure C<sub>18</sub>H<sub>34</sub>O<sub>5</sub> (aus Dioxystearinsäure). Sd. 269—270°<sub>30</sub> (Soc. 79, 1319).
- C 81,0 — H 14,1 — O 4,9 — M. G. 326.
- $C_{22}H_{46}O$  1) Aether d.  $\beta$ -Oxyundekan. Sd. 198—200°<sub>10</sub> (B. 35, 2145 C. 1902 [2] 260).
- $C_{22}H_{46}O_2$  C 77,2 — H 13,4 — O 9,3 — M. G. 342.
- 1)  $\alpha\lambda$ -Dioxy- $\alpha\lambda$ -Dimethyldokosan. Sd. 215°<sub>10</sub>. (B. 35, 3591 C. 1902 [2] 1357).
- 22 III —
- $C_{22}H_{13}OCl_3$  \*2) Anhydro- $\beta\beta\beta$ -Trichlor- $\alpha\alpha$ -Di[2-Oxynaphtyl]äthan. (Chloral- $\beta$ -Dinaphtylenoxyd) (A. 322, 346 C. 1902 [2] 430).
- $C_{22}H_{14}O_2N_2$  9) Oxyrosindon (C. 1902 [2] 805).
- 10) Acetat d. 3-Oxyphenanthrenphenazin. Sm. 223—225° (A. 322, 141 C. 1902 [2] 281).
- $C_{22}H_{14}O_2N_4$  2) 4-Nitrophenylhydrazonchinolylenphenylenmethan. Sm. 256° (B. 34, 2471).
- $C_{22}H_{14}N_2S$  2) Anhydrid d. 6-Phenylamido- $\alpha$ -Naphtophenazthioniumhydroxyd. Sm. 179° (A. 322, 45 C. 1902 [2] 223).
- 3) Anhydrid d. 3-Phenylamido- $\beta$ -Naphtophenazthioniumhydroxyd. Sm. 175° (A. 322, 47 C. 1902 [2] 223).
- $C_{22}H_{15}ON_3$  11) 6-Phenylamido-5-Oxy- $\alpha\beta$ -Naphtophenazin. Sm. 210—220° (B. 34, 1056).
- 12) 5,7-Anhydro-1-Amido-5-Oxy- $\alpha\beta$ -Naphtophenazin-7-Phenylloxydhydrat (10 Amidorosindon) (B. 34, 1228).
- $C_{22}H_{17}OCl$  \*2) Anhydro- $\beta$ -Chlor- $\alpha\alpha$ -Di[2-Oxy-1-Naphtyl]äthan. Sm. 173—174° (Bl. [3] 25, 579).

- $C_{22}H_{15}O_3N$  7) 8-Nitroso-7-Oxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 172° u. Zers. (*B.* 35, 1524 *C.* 1902 [1] 1210).  
 8) Acetat d. 9-Keto-4-Benzoylfluorenonoxim. Sm. 130° u. Zers. (*M.* 23, 35 *C.* 1902 [1] 875).
- $C_{22}H_{15}O_3As$  1) Triphenylarsinoxid-2,4,2',4'-Tetracarbonsäure. Sm. 213° (*A.* 321, 226 *C.* 1902 [2] 48).
- $C_{22}H_{15}NS$  1)  $\alpha$ -Rhodandi[1-Naphthyl]methan. Sm. 124—125° (*C.* 1902 [2] 790).
- $C_{22}H_{15}N_5Cl_2$  1) 7-Chlorphenylat d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1103).
- $C_{22}H_{16}ON_2$  12) 3-Oximido-2,4,5-Triphenylisopyrrol. Sm. 197—199° u. Zers. (*G.* 31 [2] 6).  
 13) Methyläther d. Oxymethylphenanthrophenazin. Sm. 265—268° (*B.* 34, 2240).
- $C_{22}H_{16}ON_4$  5) 6-Oxy-5-Phenylazo-2,4-Diphenyl-1,3-Diazin. Sm. 138—139° (*B.* 35, 924 *C.* 1902 [1] 807).
- $C_{22}H_{16}O_2N_2$  \*15) 2,2'-Dinaphtylamid d. Oxalsäure. Sm. 274—275° (*Soc.* 79, 846 Ann.).
- $C_{22}H_{16}O_3N_2$  3) Phenyläthendianthranilsäureanhydrid. Sm. 283° (2HCl, PtCl<sub>4</sub>) (*C.* 1902 [2] 122).  
 4) Acetat d. 10-Phenylhydrazon-3-Oxy-9-Keto-9,10-Dihydrophenanthren. Sm. 207—209° (*A.* 322, 142 *C.* 1902 [2] 281).  
*C* 68,7 — *H* 4,2 — *O* 12,5 — *N* 14,6 — *M.* G. 384.
- $C_{22}H_{16}O_3N_4$  1) 4-Phenylazo-5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol-4'-Carbon-säure. Sm. 276° (*B.* 35, 928 *C.* 1902 [1] 807).
- $C_{22}H_{16}O_4Br_2$  3) Gem. Anhydrid d. Essigsäure u.  $\beta$ -Dibrom-4-Oxytriphenylessig-säure. Sm. 212—213° (*B.* 34, 3065).
- $C_{22}H_{16}O_5N_2$  2)  $\beta$ -Di[Phenylamido]-5,6,8-Trioxyl-4-Naphtochinon (D.R.P. 127766 *C.* 1902 [1] 340).
- $C_{22}H_{16}N_3Cl$  7) 7-[4-Amidochlorphenylat] d.  $\alpha\beta$ -Naphtophenazin. 2 + PtCl<sub>4</sub> (*B.* 34, 3098).
- $C_{22}H_{16}N_3Br$  6) 7-[3-Amidobromphenylat] d.  $\alpha\beta$ -Naphtophenazin (*B.* 34, 3102).
- 7) 7-[4-Amidobromphenylat] d.  $\alpha\beta$ -Naphtophenazin (*B.* 34, 3097).
- $C_{22}H_{16}N_4Cl_2$  1) 1,4-Di[ $\alpha$ -Cyan-4-Chlorbenzylamido]benzol. Sm. 190° (*J. pr.* [2] 65, 278 *C.* 1902 [1] 1215).  
 2) 7-[4-Amidochlorphenylat] d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1105).
- $C_{22}H_{17}ON_3$  17) 7-Phenyloxydhydrat d. 1-Amido- $\alpha\beta$ -Naphtophenazin. Salze siehe (*B.* 32, 2630; 34, 1225).  
 18) 7-[3-Amidophenyloxydhydrat] d.  $\alpha\beta$ -Naphtophenazin. Bromid, Bichromat (*B.* 34, 3102).  
 19) 7-[4-Amidophenyloxydhydrat] d.  $\alpha\beta$ -Naphtophenazin. 2 Chlorid + PtCl<sub>4</sub>, Bichromat (*B.* 34, 3098).
- $C_{22}H_{17}O_3N$  2) Acetylderivat d. Phenacylnaphtalimidin. Sm. 145° (*M.* 23, 838 *C.* 1902 [2] 1471).
- $C_{22}H_{17}O_4N$  5) 2-Methylphenylester d.  $\alpha$ -Phenyl- $\beta$ -[2-Nitrophenyl]akrylsäure. Sm. 97—98° (*G.* 32 [1] 179 *C.* 1902 [1] 1053).  
 6) 2-Methylphenylester d.  $\alpha$ -Phenyl- $\beta$ -[3-Nitrophenyl]akrylsäure. Sm. 118—120° (*G.* 32 [1] 180 *C.* 1902 [1] 1053).  
 7) 2-Methylphenylester d. Allo- $\alpha$ -Phenyl- $\beta$ -[3-Nitrophenyl]akryl-säure. Sm. 83—84° (*G.* 32 [1] 180 *C.* 1902 [1] 1054).  
 8) 2-Methylphenylester d.  $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akrylsäure. Sm. 128—129° (*G.* 32 [1] 180 *C.* 1902 [1] 1054).  
 9) 2-Methylphenylester d. Allo- $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akryl-säure. Sm. 120° (*G.* 32 [1] 180 *C.* 1902 [1] 1054).
- $C_{22}H_{17}N_4Cl$  \*1) 7-[4-Amidochlorphenylat] d. 5-Amido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 3095).
- $C_{22}H_{18}ON_4$  4) 5-Keto-4-Phenylazo-1-Phenyl-3-Benzyl-4,5-Dihydropyrazol. Sm. 147° (*B.* 35, 930 *C.* 1902 [1] 807).
- $C_{22}H_{18}O_3N_2$  8) 1-Dimethylamido-5-Phenylamido-9,10-Anthrachinon (D.R.P. 136778 *C.* 1902 [2] 1375).  
 9) 1-Dimethylamido-8-Phenylamido-9,10-Anthrachinon (D.R.P. 136778 *C.* 1902 [2] 1375).  
 10)  $\beta$ -Phenylazo- $\alpha\gamma$ -Diketo- $\alpha\delta$ -Diphenylbutan. Sm. 119—120° (*B.* 34, 1485).

- $C_{22}H_{18}O_2N_2$  11) 4-Oxy-5-[ $\gamma$ -Keto- $\gamma$ -Phenylpropenyl]-3-Methylazobenzol. Sm. 180 bis 181° u. Zers. (*B.* 34, 2102).
- $C_{22}H_{18}O_2N_4$  \*) 1) Acetylformazyphenylketon. Sm. 154° (*J. pr.* [2] 65, 144 *C.* 1902 [1] 1002).
- $C_{22}H_{18}O_3N_2$  3) Aethylester d. Benzyliden-4-Methylbenzo- $\beta$ -Ketopentamethylen-azinmethylsäure. Sm. 198° (*Bl.* [3] 25, 721).
- $C_{22}H_{18}O_3N_4$  2) Anhydrid d. 3,5-Di[Acetylamido]-9-Phenylamidophenoxazonium-hydroxyd. Sm. 273° (*A.* 322, 27 *C.* 1902 [2] 222).
- $C_{22}H_{18}O_4N_2$  7) Phenyläthendianthranilsäure. Sm. 190°. Ag (*C.* 1902 [2] 122).
- 8) Verbindung (aus Chinolinbetaïnäthylesterbromid). HBr (*Ar.* 240, 518 *C.* 1902 [2] 1326).
- $C_{22}H_{18}O_4Br_2$  3) 1,3-Diphenyl-R-Tetramethylen-2,4-Di[ $\alpha$ -Bromäthenyl- $\beta$ -Carbon-säure]. Sm. 245° u. Zers. (*Am.* 28, 237 *C.* 1902 [2] 1047).
- $C_{22}H_{18}O_4S_2$  1)  $\alpha\beta$ -Di[1-Naphtylsulfon]äthan. Sm. 194° (*J. pr.* [2] 66, 137 *C.* 1902 [2] 796).
- 2)  $\alpha\beta$ -Di[2-Naphtylsulfon]äthan. Sm. 258° (*J. pr.* [2] 66, 138 *C.* 1902 [2] 796).
- $C_{22}H_{18}O_6S_2$  1) Lakton d. 1-Di[4-Methylphenylsulfon]oxymethylbenzol-2-Carbon-säure. Sm. 239° (*J. pr.* [2] 66, 350 *C.* 1902 [2] 1302).
- $C_{22}H_{18}O_7N_2$  C 62,6 — H 4,3 — O 26,5 — N 6,6 — M. G. 422.
- 1) Methylester d. Dimethylamidooxyphenoxylphenoxazoncarbon-säure (*C.* 1902 [1] 940).
- $C_{22}H_{18}O_8N_4$  2) s-Di[5-Nitro-2-Oxy-3-Methylbenzoyl]phenylhydrazin. Sm. 255° u. Zers. (*M.* 22, 948 *C.* 1902 [1] 194).
- $C_{22}H_{18}O_8Br_4$  1) Di[ $\alpha\beta$ -Dibrom- $\beta$ -Phenylpropionyl]weinsäure (Dicinnamylweinsäure-tetrabromid) (*Soc.* 79, 1308 *C.* 1902 [1] 195).
- $C_{22}H_{19}ON_3$  7) Verbindung (aus Phenylhydrazin u. 2-[4-Dimethylamidobenzoyl]benzol-1-Carbonsäure). Sm. 158°. +  $C_6H_6$  (*Bl.* [3] 25, 171).
- $C_{22}H_{19}O_3N_3$  \*) 1) Verbindung (aus d. Aethylester d.  $\alpha$ -Cyan- $\beta$ -Phenylakrylsäure). Sm. 168° (*G.* 31 [1] 271; *C.* 1902 [2] 741).
- $C_{22}H_{19}O_3Br$  1) Methylester d.  $\beta$ -Brom-4-Oxytriphenylessigmethyläthersäure. Sm. 126° (*B.* 34, 3067).
- $C_{22}H_{19}O_5As$  1) Phenylidi[4-Methylphenyl]arsin-2,2'-Dicarbonsäure? Sm. 196° (*A.* 321, 226 *C.* 1902 [2] 48).
- $C_{22}H_{20}ON_2$  11) Phenyläther d.  $\gamma$ -Phenylhydrazon- $\beta$ -Oxy- $\alpha$ -Phenyl- $\alpha$ -Buten. Sm. 118° (*B.* 35, 3554 *C.* 1902 [2] 1311).
- $C_{22}H_{20}OS$  1) Phenyläther d.  $\gamma$ -Merkapto- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylbutan. Fl. (*B.* 35, 811 *C.* 1902 [1] 756).
- $C_{22}H_{20}O_2N_2$  25) 2,4-Di[Benzoylamido]-1,3-Dimethylbenzol. Sm. 226,5—227,5° (232°) (*B.* 34, 33; *Soc.* 81, 93 *C.* 1902 [1] 186).
- 26) 4,6-Di[Benzoylamido]-1,3-Dimethylbenzol. Sm. 258—259° (252 bis 253°) (*B.* 34, 31; *Soc.* 81, 93 *C.* 1902 [1] 186).
- $C_{22}H_{20}O_2N_4$  4) 4-Dibenzylamido-3-Oxy-5-Keto-1-Phenyl-4,5-Dihydro-1,2,4-Tri-azol. Sm. 185—186° (*C.* 1901 [1] 937).
- 5) 3,6-Diketo-4-Phenyl-1,2-Dibenzylhexahydro-1,2,4,5-Tetrazin. Sm. 180° (*B.* 34, 2319).
- 6) Pyrazolblau (aus 5-Keto-3-Aethyl-1-Phenyl-4,5-Dihdropyrazol). Sm. 234° u. Zers. (*C.* 1901 [1] 1195).
- $C_{22}H_{20}O_2N_4$  3) 4-Acetat d. 4-Oxy-2-Phenylhydrazon-1-Acetylphenylhydrazon-1,2-Dihydrobenzol. Sm. 163° (*Am.* 28, 162).
- $C_{22}H_{20}O_3S$  1)  $\gamma$ -Phenylsulfon- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylbutan. Sm. 100° (*B.* 35, 811 *C.* 1902 [1] 756).
- 2)  $\gamma$ -Benzylsulfon- $\alpha$ -Keto- $\alpha\gamma$ -Diphenylpropan. Sm. 147—148° (*B.* 35, 808 *C.* 1902 [1] 755).
- $C_{22}H_{20}O_3S_3$  1) Merkaptothiondibenzoësäureanhydrid (aus Trithiodibutolakton). Sm. 91—92° (*B.* 34, 3399).
- $C_{22}H_{20}O_4N_2$  16) Dipropionylindigweiss. Sm. 218° (*B.* 34, 1859).
- 17) 3-Aethylester d. 6-Methyl-1,4-Benzdiazin-2-Benzylidenmethyl-säure-3-Methyloxy? Na (*Bl.* [3] 25, 722).
- 18) Di[Phenylamidoformiat] d. 2-Oxy-1-[ $\beta$ -Oxyäthyl]benzol. Sm. 130° (*B.* 34, 1810).
- $C_{22}H_{20}O_4N_4$  C 65,3 — H 4,9 — O 15,8 — N 13,8 — M. G. 404.
- 1) Phloroglucinbutanondisazobenzol. Sm. 235°. +  $C_2H_4O_2$  (*A.* 318, 209).

- $C_{22}H_{20}O_4N_4$  2) Verbindung (aus Toluol u.  $\beta$ -Phenylhydrazonpropionsäuremethylester). Sm. 183—184° (A. 316, 40).
- $C_{22}H_{20}O_4N_6$  \*1) Dimethylester d. 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 270—272° (Bl. [3] 27, 119 C. 1902 [1] 722).
- \*2) Diäthylester d. stabil. 4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 208° (204—206°).  $Na_2$ ,  $Ag_2$  (J. pr. [2] 63, 16; Bl. [3] 27, 107 C. 1902 [1] 721; Bl. [3] 27, 202 C. 1902 [1] 916).
- 6) Dimethylester d. isom. 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 225—227°.  $Na_2$  (Bl. [3] 27, 119 C. 1902 [1] 722).
- 7) Dimethylester d. 4,4'-Biphenylendi[Methylhydrazoncyanessigsäure]. Sm. 276—277° (Bl. [3] 27, 115 C. 1902 [1] 722).
- 8) Diäthylester d. labil. 4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 233° (234°) (J. pr. [2] 63, 18; Bl. [3] 27, 109 C. 1902 [1] 721).
- 9) Monoäthylester d. 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure] (J. pr. [2] 63, 21).
- $C_{22}H_{20}O_5N_2$  2) Diäthylamidooxyphenoxazonoxyphenyläther (C. 1902 [1] 940).
- $C_{22}H_{20}O_6N_6$  C 56,9 — H 4,3 — O 20,7 — N 18,1 — M. G. 464.
- 1) Dimethylester d. 3,3'-Dimethoxyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 266—268° (Bl. [3] 27, 123 C. 1902 [1] 722).
- 2) Dimethylester d. isom. 3,3'-Dimethoxyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 254—255°.  $Na_2$  (Bl. [3] 27, 123 C. 1902 [1] 722).
- $C_{22}H_{20}O_7N_2$  2) Methylester d. 9-Dimethylamido-4-[3-Oxyphenoxyl]-2,3-Dioxyphenoxazin-5-Carbonsäure. HCl (C. 1902 [1] 940).
- $C_{22}H_{20}O_8N_6$  C 53,2 — H 4,0 — O 25,8 — N 16,9 — M. G. 496.
- 1) Aethylendiphenyldiamindialloxan. Zers. bei 213° (C. 1900 [2] 790). — \*II, 221.
- $C_{22}H_{20}N_4S_2$  1) 4-Aethylamidophenyläther d. 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 182° (B. 34, 312).
- $C_{22}H_{21}ON$  7)  $\alpha$ -Verbindung (aus Methylbenzylketon u. Benzylidenanilin). Sm. 173° (Soc. 81, 958 C. 1902 [2] 198, 702).
- 8)  $\beta$ -Verbindung (aus Methylbenzylketon u. Benzylidenanilin). Sm. 182° (Soc. 81, 959 C. 1902 [2] 198, 702).
- 9)  $\gamma$ -Verbindung (aus Methylbenzylketon u. Benzylidenanilin). Sm. 184° (Soc. 81, 959 C. 1902 [2] 198, 702).
- $C_{22}H_{21}O_2N$  6) Diphenylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 67° (B. 34, 2140).
- 7) Phenylbenzylamid d.  $\alpha$ -Oxypropionphenyläthersäure. Sm. 111—112° (B. 34, 2135).
- $C_{22}H_{21}O_3N_3$  C 70,4 — H 5,6 — O 12,8 — N 11,2 — M. G. 375.
- 1) Methyläther d.  $\gamma$ -[2-Nitrophenyl]hydrazon- $\gamma$ -Phenyl- $\alpha$ -[2-Oxyphenyl]propan. Sm. 120—121° (B. 34, 411).
- 2) Dimethyläther d. Benzoyldi[4-Oxyphenyl]guanidin. Sm. 180,5° (D. R. P. 68706). — \*II, 737.
- $C_{22}H_{21}O_5Cl$  1) Trimethyläther d.  $\alpha$ -Chlortri[4-Oxyphenyl]methan. Sm. 154—156° u. Zers. (B. 35, 3031 C. 1902 [2] 1115).
- $C_{22}H_{21}O_6N$  C 66,8 — H 5,3 — O 24,3 — N 3,5 — M. G. 395.
- 1) Monoacetat d. Chelidonin. Sm. 160—161°. (2HCl, PtCl<sub>4</sub>, (HCl, AuCl<sub>3</sub>) (C. 1901 [2] 783).
- $C_{22}H_{22}ON_2$  13) Aethylphenyl-4-Benzoylamidobenzylamin. Sm. 124° (B. 35, 1296 C. 1902 [1] 1094).
- 14) 4'-[2-Oxy-1-Naphtyl]azo-1,2,3,4,5,6-Hexahydrobiphenyl (A. 318, 325).
- $C_{22}H_{20}O_4N_2$  5) 3,4,6,3',4',6'-Hexamethylindigo (Am. 27, 13 C. 1902 [1] 477).
- $C_{22}H_{22}O_2N_4$  9) 4,4'-Bi[5-Keto-3-Aethyl-1-Phenyl-4,5-Dihydropyrazol]. Sm. 335° (C. 1901 [1] 1195).
- $C_{22}H_{22}O_3N_2$  3) Benzoat d. Benzoylgranatoninoxim. Sm. 165° (G. 31 [1] 563).
- $C_{22}H_{22}O_4Br_2$  1) Diäthylester d. 1,3-Di[4-Bromphenyl]-R-Tetramethylen-2,4-Dicarbonsäure (D. d. Dibrom- $\alpha$ -Truxillsäure). Sm. 124—126° (B. 35, 2931 C. 1902 [2] 1046).
- $C_{22}H_{22}O_5S_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -Phenyläthan. Sm. 131—133° (B. 35, 2346 C. 1902 [2] 516).
- 2) 1,2-Di[Benzylsulfonmethyl]benzol. Sm. 195° (B. 35, 1396 C. 1902 [1] 1096).



- $C_{22}H_{29}O_5N_2$  2) 5-[3-Oxyphenyl]äther d. 9-Diäthylamido-2,3,5-Trioxypheinoxazin. Sm. 240—241° (C. 1902 [1] 940).
- $C_{22}H_{22}O_6S$  1) Tri[4-Methoxyphenyl]methan- $\alpha$ -Sulfonsäure. Na +  $\frac{1}{2}H_2O$  (B. 35, 3028 C. 1902 [2] 1114).
- $C_{22}H_{29}O_8N_2$  2) Triacetylleukoprune. Sm. 215—216° (C. 1902 [1] 940).
- $C_{22}H_{22}O_8N_4$  \* 1) Tetramethylester d. Biphenylen-4,4'-Di[Hydrazonmalonsäure]. Sm. 217—220° (Bl. [3] 27, 318 C. 1902 [1] 1205).
- $C_{22}H_{23}O_4N$  \* 2) Dehydrocorydalin (Sor. 81, 148 C. 1902 [1] 356).
- 5) Dibenzoat d. Verbind.  $C_8H_{15}N$ . (HCl,  $AuCl_3$ ) (C. 1902 [2] 845).
- $C_{22}H_{23}O_5N$  2) Diäthylester d. 5-Keto-1,3-Diphenyltetrahydropyrrol-2,2-Dicarbonylsäure. Sm. 99° (B. 35, 519 C. 1902 [1] 658).
- $C_{22}H_{23}Cl_2As$  1) Phenylidi[2,4-Dimethylphenyl]arsindichlorid. Sm. 176° (A. 321, 224 C. 1902 [2] 48).
- $C_{22}H_{23}J_2As$  1) Jodmethyltri[4-Methylphenyl]arsoniumjodid. Sm. 215° (A. 321, 205 C. 1902 [2] 46).
- $C_{22}H_{23}J_4As$  1) Phenylidi[2,4-Dimethylphenyl]arsintetrajodid. Sm. 127° (A. 321, 225 C. 1902 [2] 48).
- $C_{22}H_{24}O_3N_2$  \* 2) Äthylester d.  $\alpha\delta$ -Di[4-Methylphenylimido]- $\gamma$ -Ketopentan- $\alpha$ -Carbonsäure (C. r. 134, 1065 C. 1902 [1] 1321).
- $C_{22}H_{24}N_2S$  1)  $\alpha\alpha$ -Diäthyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 112—113° (C. 1902 [2] 789).
- $C_{22}H_{24}N_4S_2$  2) Verbindung (aus Valeraldehyd, Piperidin u. Rubeanwasserstoff). Sm. 119° (C. 1899 [2] 1025).
- $C_{22}H_{24}ClP$  1) Methyltri[4-Methylphenyl]phosphoniumchlorid +  $2H_2O$ . Sm. 80° 2 +  $PtCl_4$  (A. 315, 84).
- $C_{22}H_{24}ClAs$  2) Methyltri[3-Methylphenyl]arsoniumchlorid. Fl. 2 +  $PtCl_4$  (A. 321, 219 C. 1902 [2] 47).
- 3) Methyltri[4-Methylphenyl]arsoniumchlorid. Sm. 87° (A. 321, 204 C. 1902 [2] 46).
- $C_{22}H_{24}JP$  2) Methyltri[4-Methylphenyl]phosphoniumjodid +  $H_2O$ . Sm. 108° +  $C_2H_5O$  (A. 315, 83).
- $C_{22}H_{24}JAs$  2) Methyltri[3-Methylphenyl]arsoniumjodid. Sm. 181° (A. 321, 219 C. 1902 [2] 47).
- 3) Methyltri[4-Methylphenyl]arsoniumjodid. Sm. 179° (A. 321, 204 C. 1902 [2] 46).
- 4) Äthylphenylidi[4-Methylphenyl]arsoniumjodid. Sm. 125° (A. 321, 196 C. 1902 [2] 46).
- 5) Äthylphenylbenzyl-4-Methylphenylarsoniumjodid. Sm. 150° (A. 321, 160 C. 1902 [2] 43).
- $C_{22}H_{25}ON$  3) 2-Oxy-1-[ $\alpha$ -Amylamidobenzyl]naphtalin. Sm. 141° (G. 31 [2] 181).
- $C_{22}H_{25}O_2N$  2) Monoxim d. 3-Keto-1-Methyl-2- oder 4-[ $\gamma$ -Keto- $\alpha\gamma$ -Diphenylpropyl]-hexahydrobenzol. Sm. 215—216° (B. 35, 1448 C. 1902 [1] 1161).
- $C_{22}H_{25}O_2As$  1) Phenylidi[2,4-Dimethylphenyl]oxyarsoniumhydroxyd. Sm. 112°. Nitrat (A. 321, 225 C. 1902 [2] 48).
- $C_{22}H_{25}O_3N$  3) Äthylester d. 4-Keto-3-[ $\alpha$ -Phenylamidobenzyl]-2-Methyl-R-Pentamethylen-4-Carbonsäure. Sm. 108—110° (A. 317, 93).
- $C_{22}H_{25}O_6N$  5) Diäthylester d. 3-Piperidyl-1,4-Naphtochinon-2-Methyldicarbon-säure. Sm. 99° (B. 34, 1552).
- C 55,1 — H 5,2 — O 36,8 — N 2,9 — M. G. 479.
- $C_{22}H_{25}O_{11}N$  1) Tetracetylhelicincyanhydrin. Sm. 162° (C. 1902 [2] 215).
- $C_{22}H_{26}O_2N_2$  15) 2,5-Diketo-1,4-Di[2,4,5-Trimethylphenyl]hexahydro-1,4-Diazin (Dipseudocumyldiketopiperazin). Sm. 221,5° (Am. 27, 13 C. 1902 [1] 477).
- $C_{22}H_{26}O_2N_4$  2) 4,4'-Di[ $\beta$ -Keto- $\alpha$ -Äthylpropylidenhydrazido]biphenyl. Sm. 292 bis 294° (Bl. [3] 27, 342 C. 1902 [1] 1205).
- 3) 4,4'-Di[ $\beta$ -Keto- $\alpha$ -Methylpropylidenhydrazido]-3,3'-Dimethylbi-phenyl. Sm. 240—242° (Bl. [3] 27, 340 C. 1902 [1] 1205).
- C 65,0 — H 6,4 — O 7,9 — N 20,7 — M. G. 406.
- $C_{22}H_{26}O_2N_6$  1) 2-Semicarbazon-1-[ $\gamma$ -Semicarbazon- $\alpha\gamma$ -Diphenylpropyl]-R-Penta-methylen. Sm. 233° u. Zers. (B. 35, 1446 C. 1902 [1] 1161).
- $C_{22}H_{26}O_3N_2$  \* 6) Acetylchinin. Sm. 108° (C. 1901 [2] 865; D.R.P. 128116 C. 1902 [1] 548; D.R.P. 134370 C. 1902 [2] 918).
- 8) 2,4-Dimethylphenylmonamid d.  $\beta$ -[2,4-Dimethylphenyl]amido-äthen- $\alpha\alpha$ -Dicarbonsäure. Sm. 147° (B. 35, 2508 C. 1902 [2] 438).

- $C_{22}H_{26}O_4N_2$  10) Dibenzoylderivat d.  $\alpha$ -Amido- $\alpha$ -Oximido- $\beta$ -Oxyoktan. Sm. 143° (A. 321, 370 C. 1902 [1] 1276).
- $C_{22}H_{26}O_4N_2$  3) Di[4-Aethoxyphenylamid] d. Citronensäure. Sm. 179° (D.R.P. 87428). — \*II, 411.
- $C_{22}H_{26}O_3N_2$  C 59,2 — H 5,8 — O 28,7 — N 6,3 — M. G. 446.
- 1) Verbindung (aus Methylamin u. Cetrarsäure). Zers. bei 200° (Ar. 240, 536 C. 1902 [2] 1329).
- $C_{22}H_{26}N_4S_2$  1) Phenylthioharnstoff d. Pseudogranatylamin. Sm. 216° (G. 31 [1] 565).
- $C_{22}H_{27}O_4N$  \*1) d-Corydalin. Sm. 135°. (2HCl, PtCl<sub>4</sub>). (Soc. 79, 87, 89; Soc. 81, 145 C. 1902 [1] 356; Soc. 81, 157 C. 1902 [1] 358; Ar. 240, 19 C. 1902 [1] 529).
- \*2) i-Corydalin. Sm. 134—135° (Ar. 240, 36 C. 1902 [1] 530).
- 4) isom. i-Corydalin. Sm. 158—159° (Ar. 240, 42 C. 1902 [1] 530).
- $C_{22}H_{27}O_{12}N$  C 53,1 — H 5,4 — O 38,6 — N 2,8 — M. G. 497.
- $C_{22}H_{28}O_2N_4$  1) Tetracetylglyko-o-Oxymandelsäureamid. Sm. 205° (C. 1902 [2] 215).
- C 69,5 — H 7,4 — O 8,4 — N 14,7 — M. G. 380.
- 1) 3,5-Di[ $\beta$ -Phenylureido]-1,3-Dimethylhexahydrobenzol. Sm. 247° (B. 35, 1175 C. 1902 [1] 1009).
- 2) 1,4,5,8-Tetra[Dimethylamido]-9,10-Anthrachinon (D.R.P. 136777 C. 1902 [2] 1374).
- $C_{22}H_{28}O_2S_2$  1) Aethylester d.  $\beta\beta$ -Dimerkapto- $\alpha$ -Aethylbutterdibenzyläthersäure. Fl. (B. 34, 2666).
- 2) Aethylester d.  $\beta\beta$ -Dimerkapto- $\alpha\alpha$ -Dimethylbutterdibenzyläthersäure. Fl. (B. 34, 2670).
- $C_{22}H_{28}O_3N_2$  2) Yohimbin. HCl (C. 1902 [1] 221).
- $C_{22}H_{28}O_4N_2$  3) Diäthylester d.  $\alpha\beta$ -Di[2-Methylphenylamido]äthan-NN-Dicarbon-säure. Sm. 79° (B. 34, 1513).
- $C_{22}H_{28}O_6N_2$  C 63,5 — H 6,7 — O 23,1 — N 6,7 — M. G. 416.
- 1) Verbindung (aus 2-Molec. o-Amidoacetophenon u. Oxalsäurediäthylester). Sm. 42° (B. 34, 2710).
- $C_{22}H_{28}O_6S_2$  1) Aethylester d.  $\beta\beta$ -Di[Benzylsulfon]- $\alpha$ -Aethylbuttersäure. Sm. 97° (B. 34, 2666).
- 2) Aethylester d.  $\beta\beta$ -Di[Benzylsulfon]- $\alpha\alpha$ -Dimethylbuttersäure. Sm. 130—136° (B. 34, 2670).
- $C_{22}H_{28}O_8N_2$  3) Säure +  $1\frac{1}{2}H_2O$  (aus Digitogensäure) oder  $C_{22}H_{30}O_8N_2$ . Sm. 242°. Ba +  $8H_2O$  (B. 34, 3566).
- $C_{22}H_{28}N_2S_4$  1) Dipropyläther d. Di[Benzylimidomerkaptomethyl]disulfid (N-Dibenzyl-S-Dipropylisothiuramdisulfid). Sd. 175°<sub>12</sub> (B. 35, 828 C. 1902 [1] 713).
- $C_{22}H_{28}N_4S_2$  1)  $\beta\epsilon$ -Di[ $\alpha$ -Methyl- $\beta$ -Phenylthioureido]- $\gamma$ -Hexen. Sm. 196° (B. 35, 1341 C. 1902 [1] 1048).
- $C_{22}H_{28}ON_6$  C 69,7 — H 7,6 — O 4,2 — N 18,5 — M. G. 379.
- 1) Verbindung (aus Diazobenzol u.  $\beta$ -Diäthylamidocrotonsäureäthylester). Sm. 135—136°. HCl (B. 34, 3605).
- $C_{22}H_{29}O_2N$  C 77,9 — H 8,6 — O 9,4 — N 4,1 — M. G. 339.
- 1) Aethyläther d. 4-Keto-1-[4-Oxy-2-Methyl-5-Isopropylphenyl]-imido-2-Methyl-5-Isopropyl-1,2-Dihydrobenzol. Sm. 96—97° (B. 35, 3223 C. 1902 [2] 1188).
- $C_{22}H_{29}O_4N$  C 71,2 — H 7,8 — O 17,2 — N 3,8 — M. G. 371.
- 1) r-Aethylaudanin. HCl +  $5H_2O$ , (2HCl, PtCl<sub>4</sub> +  $2H_2O$ ) (J. pr. [2] 65, 44 C. 1902 [1] 479).
- $C_{22}H_{30}O_6S_3$  1)  $\alpha\alpha\beta$ -Tri[Aethylsulfon]- $\alpha\gamma$ -Diphenylbutan. Sm. 120—120,5° (B. 34, 1405).
- $C_{22}H_{30}N_2S$  1)  $\alpha\alpha$ -Diisobutyl- $\beta$ -Diphenylmethylthioharnstoff. Sm. 97—98° (Am. 26, 355).
- $C_{22}H_{30}N_4S_2$  1) Verbindung (aus Formaldehyd, Diäthylthiooxamid u. Methylamin). Sm. 134° (C. 1899 [2] 1025). — \*II, 234.
- 2) Verbindung (aus Formaldehyd, Dimethylthiooxamid u. Aethylamin). Sm. 108° (C. 1902 [1] 1025). — \*II, 234.
- $C_{22}H_{30}ClJ$  1) Di[4-Isoamylphenyl]jodoniumchlorid. Sm. 74°. + HgCl<sub>2</sub>, 2 + PtCl<sub>4</sub> (B. 34, 3683).
- $C_{22}H_{30}BrJ$  1) Di[4-Isoamylphenyl]jodoniumbromid. Sm. 127° (B. 34, 3684).
- $C_{22}H_{31}OJ$  1) Di[4-Isoamylphenyl]jodoniumhydroxyd. Salze siehe (B. 34, 3683).

- $C_{22}H_{32}O_3N_2$  C 71,0 — H 8,6 — O 12,9 — N 7,5 — M. G. 372.  
 1) Anhydrid d. Cyaneampholsäure (*A. ch.* [6] 30, 522; [7] 32, 393). — \*I, 682.
- $C_{22}H_{34}O_{13}N_{10}$  \*1) Verbindung (aus Amidoessigsäure) (*B.* 34, 1501).
- $C_{22}H_{32}ON$  \*1) Phenylamid d. Palmitinsäure. Sm. 87,5° (*J. pr.* [2] 64, 434 *C.* 1902 [1] 24).
- $C_{22}H_{37}O_{16}N_5$  C 49,7 — H 7,0 — O 30,1 — N 13,2 — M. G. 531.  
 1) Molkeneiweiss (*C.* 1902 [1] 330).
- $C_{22}H_{37}Cl_2J$  1) 1-Hexadekylbenzol-4-Jodidchlorid. Sm. 86° u. Zers. (*J. pr.* [2] 65, 571 *C.* 1902 [2] 351).
- $C_{22}H_{41}OCl$  \*1) Chlorid d. Brassidinsäure. Sm. 14° (*M.* 22, 419).
- $C_{22}H_{42}O_3N_2$  C 69,1 — H 11,0 — O 12,6 — N 7,3 — M. G. 382.  
 1) Aethylester d.  $\beta$ -Palmitylhydrazonbuttersäure. Sm. 122° (*J. pr.* [2] 64, 426 *C.* 1902 [1] 24).
- $C_{22}H_{43}OCl$  1) Verbindung (aus  $\beta$ -Ketoundekan) (*B.* 35, 2146 *C.* 1902 [2] 260).
- $C_{22}H_{44}O_2N_2$  C 71,7 — H 12,0 — O 8,7 — N 7,6 — M. G. 368.  
 1) s-Undekanoyldekylharnstoff (EHESTÄDT, Dissert. Freiburg i. B. 1886). — \*I, 732.

## — 22 IV —

- $C_{22}H_{14}ON_4Cl_2$  1) 2,3'-Dichlor-4-[2-Oxy-1-Naphtylazo]azobenzol. Sm. 226° (*C.* 1902 [2] 938).
- $C_{22}H_{15}ON_2Cl$  4) 12-Phenyloxydhydrat d. 10-Chlor- $\alpha\beta$ -Naphtophenazin. Nitrat (*B.* 34, 1089).
- $C_{22}H_{15}N_3ClBr$  1) 7-[4-Amidobromphenylat] d. 9-Chlor- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1107).
- $C_{22}H_{16}ON_3Cl$  1) 7-Phenyloxydhydrat d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (*B.* 34, 1103).
- $C_{22}H_{16}O_2N_2S_2$  2) 7-[4-Amidophenyloxydhydrat] d. 9-Chlor- $\alpha\beta$ -Naphtophenazin. Bromid, Bichromat (*B.* 34, 1107).
- $C_{22}H_{16}O_2N_2S_2$  1) Acetylthiochinanthren. 2HCl (*B.* 35, 97 *C.* 1902 [1] 417).
- $C_{22}H_{17}ON_4Cl$  2) isom. Acetylthiochinanthren. 2HCl (*B.* 35, 97).
- $C_{22}H_{15}ON_2N_4S$  1) 7-[4-Amidophenyloxydhydrat] d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (*B.* 34, 1105).
- $C_{22}H_{15}O_2N_4S$  1) Anhydrid d. 1,3-Di[Acetylamido]-6-Phenylamidophenazthioniumhydroxyd (*A.* 322, 61 *C.* 1902 [2] 225).
- $C_{22}H_{16}O_3N_3S_2$  1) Benzyläther-4-Nitrobenzyläther d. Benzoylimidodimerkapto-methan. Sm. 84—85° (*Am.* 26, 197).
- $C_{22}H_{15}O_6N_2S$  1) 4-Oxy-5-[ $\gamma$ -Keto- $\gamma$ -Propenyl]-3-Methylazobenzol-4'-Sulfonsäure. Na (*B.* 34, 2103).
- $C_{22}H_{15}O_9N_2S_2$  1) 7-Sulfo-5-Oxy-2-Naphtylamid d. 5-Oxy-2-Naphtylamidoessigsäure-7-Sulfonsäure. Na<sub>2</sub> (*C.* 1901 [2] 1373).
- $C_{22}H_{16}ONS_2$  1) Dibenzyläther d. Benzoylimidodimerkapto-methan. Sm. 97° (*Am.* 26, 196).
- $C_{22}H_{19}ON_5S_2$  1) 4-Aethylnitrosamidophenyläther d. 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 127° (*B.* 34, 312).
- $C_{22}H_{19}O_2N_3Cl_2$  1) Phenylhydrazid d. 3,4-Dichlor-4'-Dimethylamidodiphenylketon-2-Carbonsäure. Sm. 196° (*Bl.* [3] 25, 508).
- $C_{22}H_{20}ON_2S$  2) Aethyläther d. Benzoylimidodiphenylamidomerkapto-methan (Benzoyldiphenylthioläthylpseudothioharnstoff). Sm. 142° (*Am.* 26, 414).
- $C_{22}H_{20}O_2N_2Br_2$  3) 3-Methylbenzyläther d. Benzoylimidophenylamidomerkapto-methan (Benzoylphenylthiol-m-Xylpseudothioharnstoff). Sm. 110 bis 111° (*Am.* 26, 417).
- $C_{22}H_{20}O_2N_2Br_2$  3)  $\alpha$ -[2,6-Dibrom-4-Oxy-3,5-Dimethylbenzyl]- $\alpha\beta$ -Diphenylharnstoff. Sm. 183° (*A.* 302, 82; *B.* 32, 3301). — \*II, 458.
- $C_{22}H_{20}O_8N_2S_2$  2) Di[Acetylphenylamid] d. Benzol-1,3-Disulfonsäure. Sm. 171° (*B.* 35, 1397 *C.* 1902 [1] 1097).
- $C_{22}H_{20}O_7N_3As$  1)  $\beta$ -Nitrophenyldi[ $\beta$ -Nitro-2,4-Dimethylphenyl]arsinoxid. Sm. 245° (*A.* 321, 225 *C.* 1902 [2] 48).
- $C_{22}H_{20}O_8N_2S_2$  1)  $\alpha\beta$ -Di[5-Oxy-2-Naphtylamido]äthan-7,7'-Disulfonsäure (D.R.P. 129478 *C.* 1902 [1] 791).

- $C_{22}H_{21}O_2NS_2$  1) Dibenzyläther d.  $\alpha\alpha$ -Dimerkapto- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 82—84° (*B.* 35, 2349 *C.* 1902 [2] 517).
- $C_{22}H_{21}O_2Cl_2As$  1) 4-Methyltriphenylarsindichlorid-4'-Carbonsäure. Sm. 94° (*A.* 321, 200 *C.* 1902 [2] 46).
- $C_{22}H_{21}O_6NS_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -[3-Nitrophenyl]äthan. Sm. 128—130° (*B.* 35, 2350 *C.* 1902 [2] 517).
- $C_{22}H_{22}ON_2J_2$  1) Di[ $\beta$ -Jodäthyl]äther + 2 Molec. Chinolin. Sm. 254° u. Zers. (*B.* 34, 1392).
- $C_{22}H_{22}O_4Br_4S$  1) Diacetat d. Di[3,6-Dibrom-4-Oxy-2,5-Dimethylbenzyl]sulfid. Sm. 232—233° (*B.* 34, 4277 *C.* 1902 [1] 309). — \*II, 691.
- $C_{22}H_{22}N_2J_2S_2$  1) Dijodmethylat d. p-Toluthiochinanthren (*J. pr.* [2] 66, 220 *C.* 1902 [2] 1131).
- $C_{22}H_{23}O_4NS_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon]- $\alpha$ -[3-Amidophenyl]äthan. Sm. 180—182° (*B.* 35, 2354 *C.* 1902 [2] 518).
- $C_{22}H_{23}O_6NS_2$  1) Dibenzyl-3',5'-Dimethylphenylamin-2',2'-Disulfonsäure? (*C.* 1901 [2] 1189).
- $C_{22}H_{23}ClJP$  1) Äthyl-4-Chlorphenyl-di[4-Methylphenyl]phosphoniumjodid. Sm. 176,5° (*A.* 315, 96).
- $C_{22}H_{24}OClAs$  1) Phenyl-di[2,4-Dimethylphenyl]arsinoxchlorid. Sm. 186° (*A.* 321, 224 *C.* 1902 [2] 48).
- $C_{22}H_{24}O_2NJ$  \*2) Jodäthylat d. Chelidonin (*B.* 35, 17 *C.* 1902 [1] 430).
- $C_{22}H_{24}Cl_2JAs$  1) Methyltri[4-Methylphenyl]arsoniumjodidichlorid. Sm. 146° (*A.* 321, 205 *C.* 1902 [2] 46).
- $C_{22}H_{26}O_2Cl_2Se$  1) Di[4-Isopropylbenzoylmethyl]selenidchlorid (Dichlorselenomethylcumylketon). Sm. 119° (*A.* 314, 293).
- 2) Di[2,4,5-Trimethylbenzoylmethyl]selenidchlorid (Dichlorselenomethylpseudocumylketon). Sm. 139° (*A.* 314, 293).
- $C_{22}H_{26}O_2Cl_2Te$  1) Di[2-Methyl-5-Isopropylbenzoylmethyl]telluridchlorid. Sm. 183° (*A.* 315, 18).
- 2) Di[2,4,5-Trimethylbenzoylmethyl]telluridchlorid. Sm. 188° (*A.* 315, 17).
- $C_{22}H_{26}O_3NJ$  1) Jodmethylat d. Diacetylisomorphin. Sm. 241—242° u. Zers. (*Soc.* 79, 573).
- $C_{22}H_{27}O_7NS$  1) d-Corydalinsulfonsäure. Sm. oberh. 260°. K (*Ar.* 240, 35 *C.* 1902 [1] 530).
- $C_{22}H_{28}O_8NJ$  5) Jodmethylat d. Glaucin. Sm. 216° (*C.* 1901 [2] 783).
- $C_{22}H_{34}O_{17}N_{10}P_2$  \*1) Guanylsäure (*H.* 32, 201).

## — 22 V —

- $C_{22}H_{19}O_2N_4ClS$  1) 1,3-Di[Acetyl-amido]-6-Phenylamidophenazthioniumchlorid (*A.* 322, 60 *C.* 1902 [2] 224).

**C<sub>23</sub>-Gruppe.**

- $C_{23}H_{24}$  \*3) 2,4-Dibenzoyl-1,3,5-Trimethylbenzol. Sm. 89°; Sd. 280°<sub>20—30</sub> (*Soc.* 81, 1323 *C.* 1902 [2] 1181).
- $C_{23}H_{46}$  C 85,7 — H 14,3 — M. G. 322.
- 1) Kohlenwasserstoff (aus Petroleum). Sd. 258—260°<sub>50</sub> (*Am.* 28, 188 *C.* 1902 [2] 1082).
- $C_{23}H_{48}$  \*1) Trikosan. Sm. 45°; Sd. 258—260° (*Am.* 28, 188 *C.* 1902 [2] 1082).

## — 23 II —

- $C_{23}H_{14}O_8$  C 66,0 — H 3,3 — O 30,6 — M. G. 418.
- 1) 2,4-Dibenzoylbenzol-1,3,5-Tricarbonsäure + 1½ H<sub>2</sub>O. Sm. 249 bis 250° (*Soc.* 81, 1322 *C.* 1902 [2] 352, 1181).
- $C_{23}H_{16}O_2$  5) Lakton d.  $\alpha$ -Oxy- $\alpha\beta\delta$ -Triphenyl- $\alpha\gamma$ -Butadien- $\gamma$ -Carbonsäure. Sm. 141—142° (*A.* 319, 166 *C.* 1902 [1] 104).
- 6) Benzot d. 1-[4-Oxyphenyl]naphthalin. Sm. 83° (*M.* 23, 826 *C.* 1902 [2] 1470).
- $C_{23}H_{16}O_3$  4) Acetat d. Dinaphtoxanthidrol. Sm. 194° (*Bl.* [3] 27, 505 *C.* 1902 [2] 124).

- $C_{23}H_{16}O_6$  5) Trimethyläther d. Cörulein (*Am.* 26, 145).  
 6) 2,4-Dibenzoyl-1-Methylbenzol-3,5-Dicarbonsäure. Sm. 213° (*Soc.* 81, 1322 *C.* 1902 [2] 352, 1181).  
 7) 2,6-Dibenzoyl-1,3-Dimethylbenzol-3,5-Dicarbonsäure + 2H<sub>2</sub>O. Sm. 262° (*Soc.* 81, 1321 *C.* 1902 [2] 352, 1181).  
 8) Di[3-Oxy- $\beta$ -Naphthyl]methan-2,2'-Dicarbonsäure. Sm. oberh. 300°. Na<sub>4</sub> + 2H<sub>2</sub>O (*B.* 34, 4162 *C.* 1902 [1] 318).
- $C_{23}H_{17}N_3$  \*3) 2,3-Diphenyl-2,3-Dihydro-1,2,4-Naphtisotriazin. Sm. 198° (*B.* 35, 3351 *C.* 1902 [2] 1195).
- $C_{23}H_{18}O$  3)  $\alpha$ -Oxydiphenylnaphtylmethan (D.R.P. 97286). — \*II, 670.  
 $C_{23}H_{18}O_2$  7) Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Diphenyl- $\alpha$ - $\delta$ -Pentadien. Sm. 154° (*B.* 35, 3557 *C.* 1902 [2] 1311).  
 8) 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. HCl + 4H<sub>2</sub>O, kobaltcyanwasserstoffsäures Salz, Pikrat (*B.* 35, 1807 *C.* 1902 [2] 118).
- $C_{23}H_{18}O_3$  9) Methyläther d. 7-Oxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 107—108,5° (*B.* 35, 1523 *C.* 1902 [1] 1210).  
 6)  $\delta$ -Keto- $\alpha$ - $\gamma$ - $\delta$ -Triphenyl- $\alpha$ -Buten- $\beta$ -Carbonsäure (Desylzimmtsäure). Sm. 187—188° (*A.* 319, 167 *C.* 1902 [1] 105).
- $C_{23}H_{18}O_4$  4) 2,4-Dibenzoyl-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 174—175° (*Soc.* 81, 1317 *C.* 1902 [2] 352, 1181).  
 5) 4,6-Dibenzoyl-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 221—222° (*Soc.* 81, 1318 *C.* 1902 [2] 352, 1181).  
 6) Monoacetat d. 4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Sm. 119° (*B.* 34, 2379).  
 $C_{23}H_{18}O_7$  C 68,0 — H 4,4 — O 27,6 — M. G. 406.  
 1) Trimethyläther d. Gallein. Sm. 229° (*Am.* 26, 134).
- $C_{23}H_{18}O_{10}$  6) Tetraacetat d. 7-Oxy-2-[3,4,5-Trioxyphenyl]-1,4-Benzpyron. Sm. 187—188° (*B.* 35, 2546 *C.* 1902 [2] 596).  
 7) Tetraacetat d. Kämpferol. Sm. 181° (*B.* 34, 3723 *Anm.* *C.* 1902 [1] 46; *Soc.* 81, 587 *C.* 1902 [1] 1356).  
 8) Tetraacetat d. Farbstoffs C<sub>15</sub>H<sub>10</sub>O<sub>6</sub>. Sm. 182—183° (*C.* 1901 [1] 1168; 1901 [2] 121).
- $C_{23}H_{20}O_2$  \*2) 2,4-Dibenzoyl-1,3,5-Trimethylbenzol. Sm. 117°; Sd. 275—285°<sub>19</sub> (*Soc.* 81, 1315 *C.* 1902 [2] 1181).  
 7) Benzylidenderivat d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Phenylbutan- $\beta$ -Phenyläther. Sm. 95° (*B.* 35, 3559 *C.* 1902 [2] 1311).  
 8) Methyläther d. 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 141—145° (*B.* 35, 1809 *C.* 1902 [2] 118).
- $C_{23}H_{20}O_3$  6) Dimethyläther d. 4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Sm. 104° (*B.* 34, 2380).  
 7) Acetat d. 7-Oxy-2,4-Diphenyl-2,3-Dihydro-1,4-Benzpyran. Sm. 112—115° (*B.* 34, 2385).
- $C_{23}H_{20}O_5$  4) Diacetat d. Benzaurin. Sm. 144—146° (*M.* 22, 606).  
 $C_{23}H_{20}O_6$  2) Benzaldivanillin. Sm. 221,5—222,5° (*B.* 34, 3882 *C.* 1902 [1] 118).  
 $C_{23}H_{20}O_7$  C 67,6 — H 4,9 — O 27,5 — M. G. 408.  
 1) Verbindung (aus d. Wurzelrinde von *Piscidia Erythrina* L.). Sm. 201° (*Am.* 25, 400).
- $C_{23}H_{20}N_2$  7)  $\epsilon$ -Phenylhydrazon- $\alpha$ - $\epsilon$ -Diphenyl- $\alpha$ - $\gamma$ -Pentadien. Sm. 125—126° (*B.* 35, 1066 *C.* 1902 [1] 929).
- $C_{23}H_{21}N_5$  3) 2,5-Di[4-Methylphenylimido]-1-[4-Methylphenyl]-2,5-Dihydro-1,3,4-Triazol. Sm. 178° (*B.* 35, 1724 *C.* 1902 [2] 31).
- $C_{23}H_{22}O$  5)  $\alpha$ - $\delta$ -Triphenylpentan- $\alpha$ - $\delta$ -Oxyd. Sd. 245—250°<sub>17</sub> (*C. r.* 135, 629 *C.* 1902 [2] 1359).
- $C_{23}H_{22}O_3$  3) Aethylester d. 4-Keto-2-Phenyl-6-[ $\beta$ -Phenyläthenyl]-1,2,3,4-Tetrahydrobenzol-3-Carbonsäure. Sm. 134° (*B.* 35, 396 *C.* 1902 [1] 569).  
 C 58,2 — H 4,6 — O 37,1 — M. G. 474.
- $C_{23}H_{22}O_{11}$  1) Verbindung (aus Opiansäurepseudomethylester). Sm. 193—194° (*M.* 23, 380 *C.* 1902 [2] 203).  
 C 74,8 — H 6,2 — N 19,0 — M. G. 369.
- $C_{23}H_{23}N_5$  1) 3,5-Di[4-Methylphenylimido]-4-[4-Methylphenyl]tetrahydro-1,2,4-Triazol. Sm. 223—224°. HCl (*B.* 35, 1723 *C.* 1902 [2] 31).
- $C_{23}H_{24}O_2$  \*1) 2,4-Di[ $\alpha$ -Oxybenzyl]-1,3,5-Trimethylbenzol. Sd. 320—330°<sub>50</sub> (*Soc.* 81, 1323 *C.* 1902 [2] 1181).



- $C_{23}H_{24}O_2$  2) Dimethyläther d. 4,4'-Dioxy-3,3'-Dimethyltriphenylmethan. Sm. 101—102° (B. 35, 3256 C. 1902 [2] 1252).
- 3) Dimethyläther d. 6,6'-Dioxy-3,3'-Dimethyltriphenylmethan. Sm. 107—109° (B. 35, 3254 C. 1902 [2] 1252).
- 4) Diäthyläther d.  $\alpha$ ,4'-Dioxytriphenylmethan. Sm. 87° (B. 35, 3134 C. 1902 [2] 1209).
- $C_{23}H_{24}O_4$  2) Aethylester d.  $\gamma$ , $\gamma$ -Diketo- $\alpha$ , $\epsilon$ -Diphenyl- $\alpha$ -Okten- $\zeta$ -Carbonsäure (Acetessigesterdibenzylidenacetone). Sm. 132° (B. 35, 396 C. 1902 [1] 569).
- $C_{23}H_{24}N_2$  2) Methylen-1,2-Di[4-Methylphenylamidomethyl]benzol. Sm. 159 bis 160° (B. 34, 1509).
- 3) 4'-Benzylidenamido-2,3'-Diäthylidiphenylamin? Sm. 110—112° (J. pr. [2] 66, 168 C. 1902 [2] 937).
- $C_{23}H_{24}N_4$  2)  $\alpha$ , $\beta$ -Di[Methylphenylhydrazon]- $\alpha$ -[4-Methylphenyl]äthan. Sm. 208° (B. 35, 2294 C. 1902 [2] 362).
- 3) Phenylhydrazon d.  $\alpha$ -Imido- $\alpha$ -[ $\alpha$ -Benzoylisopropyl]amido- $\alpha$ -Phenylmethan. Sm. 110° (B. 34, 641).
- $C_{23}H_{25}N_3$  \*1) Phenylauramin. Sm. 171°. HJ (B. 35, 2619 C. 1902 [2] 594).
- 3) 4-Methylphenylimidodi[4-Methylphenylamido]äthan. 2HCl (C. 1902 [2] 122).
- $C_{23}H_{20}O_2$  C 85,6 — H 7,8 — O 9,6 — M. G. 334.
- 1) Aethyläther d. d-2-Oxy-1-Naphtylidencampher. Sm. 100° (C. r. 133, 44).
- $C_{23}H_{26}O_5$  \*1) Diäthylester d.  $\gamma$ -Keto- $\alpha$ , $\epsilon$ -Diphenylpentan- $\beta$ , $\delta$ -Dicarbonsäure. Sm. 92° (B. 34, 1996).
- $C_{23}H_{20}O_{10}$  C 59,8 — H 5,6 — O 34,6 — M. G. 462.
- 1) Nataloin (C. r. 134, 1586 C. 1902 [2] 370).
- $C_{23}H_{28}N_4$  \*3)  $\alpha$ -Phenylhydrazondi[4-Dimethylamidophenyl]methan. Sm. 174° (B. 35, 366).
- $C_{23}H_{27}N_3$  6)  $\alpha$ -Phenylamidodi[4-Dimethylamidophenyl]methan. Sm. 154° (B. 35, 361 C. 1902 [1] 588).
- $C_{23}H_{28}O_2$  C 82,1 — H 8,3 — O 9,5 — M. G. 336.
- 1) Aethyläther d. d-2-Oxy-1-Naphtylmethylcampher. Sm. 112° (C. r. 133, 45).
- $C_{23}H_{28}O_4$  5) Dipropyläther d. 2,6-Di[2-Oxyphenyl]tetrahydro-1,4-Pyron. Sm. 112—113° (C. 1902 [1] 206).
- $C_{23}H_{28}O_7$  2)  $\alpha^2$ , $\alpha^4$ , $\alpha^6$ , $\gamma^8$ -Tetramethyläther- $\gamma^4$ -Aethyläther d.  $\alpha$ , $\gamma$ -Diketo- $\alpha$ -[2,4,6-Trioxypheyl]- $\gamma$ -[3,4-Dioxyphenyl]- $\beta$ -Aethylpropan. Sm. 132 bis 133° (B. 34, 3720 C. 1902 [1] 45).
- $C_{23}H_{28}N_4$  C 76,7 — H 7,8 — N 15,5 — M. G. 360.
- 1)  $\alpha$ -Phenylhydrazidodi[4-Dimethylamidophenyl]methan. Sm. 116° (B. 35, 365 C. 1902 [1] 588).
- $C_{23}H_{30}O_5$  C 71,5 — H 7,8 — O 20,7 — M. G. 386.
- 1) Di[2-Isoamylloxylphenylester] d. Kohlensäure. Sm. 60° (D. R. P. 72806). — \*II, 551.
- $C_{23}H_{30}O_7$  2)  $\alpha$ -Kosin (oder  $C_{22}H_{26}O_7$ ). Sm. 160° (Ar. 239, 674 C. 1902 [1] 268).
- 3)  $\beta$ -Kosin. Sm. 120—121° (Ar. 239, 677 C. 1902 [1] 268).
- $C_{23}H_{30}O_{11}$  C 57,3 — H 6,2 — O 36,5 — M. G. 482.
- 1) Tetracetylglyko-o-Oxyphenyläthylcarbinol. Sm. 156,5° (C. 1902 [2] 215).
- 2) isom. Tetracetylglyko-o-Oxyphenyläthylcarbinol. Sm. 128° (C. 1902 [2] 215).
- $C_{23}H_{36}O_{12}$  \*1) Hexaäthylester d. Pentan- $\alpha\alpha\gamma\gamma\epsilon\epsilon$ -Hexacarbonsäure. Sm. 53 bis 54° (J. pr. [2] 66, 126 C. 1902 [2] 734).
- 2) Hexaäthylester d. Pentan- $\alpha\beta\beta\delta\delta\epsilon$ -Hexacarbonsäure. Sm. 62° (J. pr. [2] 66, 112 C. 1902 [2] 733).
- $C_{23}H_{36}N_4$  C 75,0 — H 9,8 — N 15,2 — M. G. 368.
- 1) 4,6,4',6' - Tetra[Dimethylamido]-3,3' - Dimethyldiphenylmethan. Sm. 86°. Pikrat (Soc. 81, 657 C. 1902 [1] 1279).
- $C_{23}H_{44}O$  C 82,1 — H 13,1 — O 4,8 — M. G. 336.
- 1) Yucelersen. Sm. 75—77° (Ar. 240, 316 C. 1902 [2] 136).
- $C_{23}H_{44}O_2$  2) Methylster d. Brassidinsäure. Sm. 34—35° (M. 22, 419).
- $C_{23}H_{46}N_4$  C 73,0 — H 12,2 — N 14,8 — M. G. 378.
- 1) Amidoguanidinderivat d.  $\beta$ -Ketoundeken. Pikrat. Sm. 125—126° (B. 35, 2146 C. 1902 [2] 260).

- $C_{23}H_{15}ON$  \* 1) Benzoylphenyl- $\beta$ -Naphthylcarbazon. Sm. 189,5° (*C.* 1901 [2] 428).
- $C_{23}H_{16}ON_2$  6) 7,8-Anhydro-7-Phenyl oxyhydrat d. 8-Oxy-10-Methyl- $\alpha\beta$ -Naphthophenazin (B-m-Methylisorosindon). Sm. 220°. Salze siehe (*B.* 34, 947).
- 7) 7,9-Anhydro-7-Phenyl oxyhydrat d. 9-Oxy-10-Methyl- $\alpha\beta$ -Naphthophenazin (B-o-Methylisorosindon). Sm. 258°. Salze siehe (*B.* 34, 942).
- $C_{23}H_{16}ON_4$  2-) 2-(2-Oxy-1-Naphtylazo)phenylbenzimidazol. Sm. 272° (*B.* 34, 2963).
- 4) 2-(3-[2-Oxy-1-Naphtylazo]phenyl)benzimidazol. Sm. 156—157° (*B.* 34, 2964).
- 5) 2-(4-[2-Oxy-1-Naphtylazo]phenyl)benzimidazol. Sm. 297—298° (*B.* 34, 2964).
- $C_{23}H_{16}O_2N_2$  8) 4-[Benzoyl-1-Naphtylhydrazon]-1-Keto-1,4-Dihydrobenzol. Sm. 113,5° (*Am.* 25, 489).
- 9) Benzoat d. 1-[4-Oxyphenylazo]naphtalin. Sm. 120° (*Am.* 25, 492).
- $C_{23}H_{16}N_2Cl_2$  2) 7-Chlorphenylat d. 9-Chlor-10-Methyl- $\alpha\beta$ -Naphthophenazin. 2 +  $PtCl_4$ , +  $AuCl_3$  (*B.* 34, 943).
- $C_{23}H_{17}ON$  4) N-Aethyl- $\beta$ -Naphtakridin. Sm. 204,5—205° (*B.* 34, 4155 *C.* 1902 [1] 317).
- $C_{23}H_{17}O_2N_5$  C 69,9 — H 4,3 — O 8,1 — N 17,7 — M. G. 395.
- 1) 1-[ $\alpha$ -Cyan-4-Nitrobenzyliden]amido-4-[Methyl- $\alpha$ -Cyanbenzyl]-amidobenzol. Sm. 174° u. Zers. (*B.* 35, 3354 *C.* 1902 [2] 1195).
- $C_{23}H_{17}N_3Cl_2$  1) 7-Chlormethylat d. 9-Chlor-5-Phenylamido- $\alpha\beta$ -Naphthophenazin. 2 +  $PtCl_4$  (*B.* 34, 1097).
- $C_{23}H_{18}ON_2$  11) 1-Phenacyl-2,4-Diphenylimidazol. Sm. 142—143° (*B.* 34, 1832).
- 12) 4-Methyl-2-[2-Benzoylamidophenyl]chinolin. Sm. 150° (*C.* 1901 [2] 1228).
- $C_{23}H_{18}O_2N_2$  5-) Methyläther d. 5-Oxy- $\alpha\beta$ -Naphthophenazin-7-Phenyl oxyhydrat. Methylsulfat (*A.* 322, 74 *C.* 1902 [2] 225).
- 12) Verbindung (aus Benzaldehyd cyanhydrin). Sm. 196,5° (*B.* 35, 1590 *C.* 1902 [1] 1292).
- $C_{23}H_{18}O_3Br_4$  1) Phenyläther d.  $\alpha\beta\delta\epsilon$ -Tetrabrom- $\beta$ -Oxy- $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan (*B.* 35, 3558 *C.* 1902 [2] 1311).
- $C_{23}H_{18}O_3N_4$  C 69,3 — H 4,5 — O 12,1 — N 14,1 — M. G. 398.
- 1) s-Di[1-Naphtylamidoformyl]harnstoff. Sm. 202—203° (*Soc.* 79, 845).
- 2) s-Di[2-Naphtylamidoformyl]harnstoff. Zers. bei 290° (*Soc.* 79, 846).
- $C_{23}H_{19}O_2N$  5) 2-Aethylbenzylamido-9,10-Anthrachinon. Sm. 131° (*Bl.* [3] 25, 208).
- $C_{23}H_{19}O_2N_3$  5) Methyläther d. 7-Acetylamido-6-Oxy-2,3-Diphenyl-1,4-Benzdiazin. Sm. 194—195° (*Soc.* 79, 1077).
- $C_{23}H_{19}O_3N_5$  C 66,8 — H 4,6 — O 11,6 — N 17,0 — M. G. 413.
- 1) Amid d.  $\alpha$ -[Methyl- $\alpha$ -Cyan-4-Nitrobenzylidenamidophenyl]amido- $\alpha$ -Phenyllessigsäure. Zers. bei 200° (*B.* 35, 3356 *C.* 1902 [2] 1195).
- $C_{23}H_{19}O_5N$  7) O-Benzoat-N-4-Methoxybenzoat d. 4-Methylbenzhydroxamsäure. Sm. 146° (*C.* 1899 [2] 179). — \*II, 909.
- 8) O-4-Methylbenzoat-N-Benzoat d. 4-Methoxybenzhydroxamsäure. Sm. 133—134° (*C.* 1899 [2] 179). — \*II, 909.
- $C_{23}H_{19}O_8N$  C 63,2 — H 4,3 — O 29,3 — N 3,2 — M. G. 437.
- 1) 3-Nitrobenzylidendivanillin. Sm. 266,5° u. Zers. (*B.* 35, 1962 *C.* 1902 [2] 116).
- 2) 4-Nitrobenzylidendivanillin. Sm. 276° u. Zers. (*B.* 35, 1961 *C.* 1902 [2] 115).
- $C_{23}H_{20}ON_2$  4) 2-Oxy-1-[ $\alpha$ -Phenylhydrazidobenzyl]naphtalin. Sm. 161° (*G.* 31 [2] 199).
- 5) 1-Oxy-2-[ $\alpha$ -Phenylhydrazidobenzyl]naphtalin. Sm. 156° (*G.* 31 [2] 200).
- 6) Phenylamidoformyltetrahydrofluorencinolin. Sm. 208° (*B.* 35, 3280 *C.* 1902 [2] 1261).
- $C_{23}H_{20}ON_6$  C 69,7 — H 5,1 — O 4,0 — N 21,2 — M. G. 396.
- 1) 2,3,4-Tri[Phenylhydrazon]-1,4-Pyran. Sm. 158,5° (*C.* 1902 [1] 1109).
- $C_{23}H_{20}O_2N_2$  \* 5) Aethylester d.  $\alpha$ -Phenylhydrazon- $\alpha$ -[9-Fluorenyl]essigsäure. Sm. 154—155° (*B.* 35, 764 *C.* 1902 [1] 814).
- 6) Methylenäther d.  $\gamma$ -Phenylhydrazon- $\gamma$ -[4-Methylphenyl]- $\alpha$ -[3,4-Dioxyphenyl]propen. Sm. 135° (*B.* 35, 1071 *C.* 1902 [1] 930).

- $C_{23}H_{20}O_2N_2$  7) 1-Dimethylamido-5-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 136778 C. 1902 [2] 1375).
- 8) 1-Dimethylamido-8-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 136778 C. 1902 [2] 1375).
- 9) 2-Dimethylamido-1-[4-Methylphenyl]amido-9,10-Anthrachinon (D.R.P. 136778 C. 1902 [2] 1376).
- 10) Aethyläther d. 6- oder 7-Oxy-1-Keto-2-Phenyl-4-Benzyl-1,2-Dihydro-2,3-Benzdiazin. Sm. 126—127° (B. 34, 3740 C. 1902 [1] 39).
- $C_{23}H_{20}O_2N_4$  1) Verbindung (aus d. Verb.  $C_{11}H_9O_4$ ) (Soc. 79, 815).
- $C_{23}H_{20}O_4N_2$  C 71,1 — H 5,2 — O 16,5 — N 7,2 — M. G. 388.
- 1) Amid d.  $\alpha$ -Benzoylamido- $\beta$ -[4-Benzoxylphenyl]propionsäure (Dibenzoyltyrosinamid). Sm. 246° (Soc. 79, 1355 C. 1902 [1] 25).
- $C_{23}H_{20}O_6N_4$  C 61,6 — H 4,5 — O 21,4 — N 12,5 — M. G. 448.
- 1) Diäthylester d. Säure  $C_{16}H_{19}O_6N_4$ . Zers. bei 220° (Bl. [3] 25, 725).
- $C_{23}H_{21}O_3N_3$  3) trans- $\alpha$ -Phenylnitrosamido- $\gamma$ -Benzoylphenylamido- $\alpha$ -Buten. Sm. 147,5° (A. 318, 80).
- 4) trans- $\alpha$ -[4-Nitrosophenyl]amido- $\gamma$ -Benzoylphenylamido- $\alpha$ -Buten. Sm. 217° (A. 318, 81).
- $C_{23}H_{21}O_3N$  C 76,9 — H 5,8 — O 13,4 — N 3,9 — M. G. 359.
- 1) 9,9-Dimethyläther-10-Benzyläther d. 10-Oximido-9,9-Dioxy-9,10-Dihydroanthracen. Sm. 69—70° (A. 323, 229 C. 1902 [2] 802).
- 2) 2-[4-Aethylbenzylamidobenzoyl]benzol-1-Carbonsäure. Sm. 172° (Bl. [3] 25, 173).
- $C_{23}H_{21}O_4N$  2) Aethylester d.  $\alpha$ -Phenylamidoformoxyldiphenyllessigsäure. Sm. 151° (Bl. [3] 27, 873 C. 1902 [2] 934).
- $C_{23}H_{21}O_5N$  C 70,6 — H 5,4 — O 20,4 — N 3,6 — M. G. 391.
- 1) 2,4-Diacetat d.  $\alpha$ -Oxy- $\alpha$ -Phenylamido- $\alpha$ -[2-Oxyphenyl]- $\alpha$ -[4-Oxyphenyl]methan. HCl (B. 35, 992 C. 1902 [1] 870).
- $C_{23}H_{21}O_6N_3$  C 65,8 — H 5,0 — O 19,1 — N 10,0 — M. G. 419.
- 1) Farbstoff (aus Gallamido-p-Phenetol) (J. pr. [2] 63, 90).
- $C_{23}H_{22}O_2N_2$  15) 4-Methyläther- $\beta$ -Phenyläther d.  $\gamma$ -Phenylhydrazon- $\beta$ -Oxy- $\alpha$ -[4-Oxyphenyl]- $\alpha$ -Buten. Sm. 101° (B. 35, 3556 C. 1902 [2] 1311).
- 16) Verbindung (aus Chinin). Sm. 202° (2 HCl, PtCl<sub>4</sub>) (C. 1902 [1] 825).
- $C_{23}H_{22}O_2Br_2$  1) Diäthyläther d. 2-Dibrom- $\alpha$ ,4-Dioxytriphenylmethan. Sm. 105° (B. 35, 3138 C. 1902 [2] 1210).
- $C_{23}H_{22}O_3N_2$  3) N-Acetyl-4-Diacetylamidobenzyl-1-Naphtylamin. Sm. 216° (Bl. [3] 27, 1062 C. 1902 [2] 1510).
- 4) N-Acetyl-4-Diacetylamido-2-Naphtylamin. Sm. 250—251° (Bl. [3] 27, 1065 C. 1902 [2] 1510).
- 5)  $\beta$ -Phenylhydrazon- $\alpha$ -[4- oder 5-Aethoxyphenyl]- $\beta$ -Phenyläthan- $\alpha^2$ -Carbonsäure. Sm. 187° (B. 34, 3743 C. 1902 [1] 40).
- $C_{23}H_{22}O_3S$  1)  $\gamma$ -Benzylsulfon- $\alpha$ -Keto- $\alpha$ - $\gamma$ -Diphenylbutan. Sm. 137—138° (B. 35, 810 C. 1902 [1] 756).
- $C_{23}H_{22}O_5N_2$  C 68,0 — H 5,4 — O 19,7 — N 6,9 — M. G. 406.
- 1) Di[Phenylamid] d. Piscidinsäure. Sm. 196° (Am. 25, 395).
- $C_{23}H_{22}O_8N_2$  2) 2,5-Di[2,5-Dimethyl-1-Pyrryl]-1-Methylbenzol-2<sup>3</sup>,2<sup>4</sup>,5<sup>3</sup>,5<sup>4</sup>-Tetracarbonsäure. Sm. 275°  $Ag_2$  (B. 35, 683 C. 1902 [1] 715).
- 3) 3,4-Di[2,5-Dimethyl-1-Pyrryl]-1-Methylbenzol-3<sup>3</sup>,3<sup>4</sup>,4<sup>3</sup>,4<sup>4</sup>-Tetracarbonsäure. Sm. 272° u. Zers.  $NH_4$ ,  $Ag_2$  (B. 35, 188 C. 1902 [1] 415).
- $C_{23}H_{23}ON$  2) Verbindung (aus Aethylbenzylketon u. Benzylidenanilin). Sm. 161° (Soc. 81, 960 C. 1902 [2] 198, 702).
- $C_{23}H_{23}O_2N$  6) 4-Aethylbenzylamidodiphenylmethan-2'-Carbonsäure. Sm. 145° (Bl. [3] 25, 203). — \*II, 869.
- 7) Phenylbenzylamid d.  $\alpha$ -Oxybutterphenyläthersäure. Sm. 65°; Sd. 245°<sub>15</sub> (B. 34, 2136).
- 8) Phenylbenzylamid d.  $\alpha$ -Oxyisobutterphenyläthersäure. Sm. 52—53° (B. 34, 2137).
- $C_{23}H_{23}O_3P$  1) Tri[4-Methylphenyl]phosphorbetain. Sm. 145° (A. 315, 86).
- $C_{23}H_{23}O_5N$  \*3) Phenylamid d. Decarbousninsäure. Sm. 235—236° (A. 324, 183 C. 1902 [2] 1512).
- $C_{23}H_{23}O_6N$  \*1) Corycavin. Sm. 215—216° (Ar. 240, 19 C. 1902 [1] 529).
- $C_{23}H_{25}O_7Br$  1) Diäthylester d. 5-Brom-6-Keto-1,3-Dioxy-pentanthren-1-Aethyläther-2,4-Dicarbonsäure. Sm. 142—144° (B. 34, 1551).

- $C_{21}H_{26}O_2N_4$  C 70,8 — H 6,6 — O 8,2 — N 14,4 — M. G. 390.  
 1)  $\alpha$ -[3-Nitrophenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 152° (B. 35, 368 C. 1902 [1] 588).  
 2)  $\alpha$ -[4-Nitrophenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 168° (182°) (B. 35, 368 C. 1902 [1] 588; C. r. 134, 550 C. 1902 [1] 873).
- $C_{23}H_{26}O_4N_4$  2) Diäthylester d. 1,2-Di[Phenylhydrazon]-R-Pentamethylen-3,5-Dicarbonsäure. Sm. 112° (B. 35, 3207 C. 1902 [2] 1249).  
 C 63,0 — H 5,9 — O 18,3 — N 12,8 — M. G. 438.
- $C_{23}H_{26}O_5N_4$  1) 2,4-Dinitro-1-Oxybenzol + Di[4-Dimethylamidophenyl]methan. Sm. 72° (C. r. 135, 347 C. 1902 [2] 798).  
 C 57,3 — H 5,4 — O 19,9 — N 17,4 — M. G. 482.
- $C_{23}H_{26}O_6N_6$  1) 2,4,6-Trinitro-1-Amidobenzol + Di[4-Dimethylamidophenyl]methan. Sm. 106° (C. r. 135, 347 C. 1902 [2] 799).  
 2) Äthyltri[4-Methylphenyl]phosphoniumjodid. Sm. 185° (A. 315, 85).
- $C_{23}H_{26}JP$  2) Methylphenylidi[2,4-Dimethylphenyl]arsoniumjodid. Sm. 184° (A. 321, 225 C. 1902 [2] 48).  
 $C_{23}H_{26}JAS$  3) Äthyltri[3-Methylphenyl]arsoniumjodid. Sm. 130° (A. 321, 219 C. 1902 [2] 47).  
 4) Äthyltri[4-Methylphenyl]arsoniumjodid. Sm. 158° (A. 321, 205 C. 1902 [2] 47).
- $C_{23}H_{27}OAS$  1) Methylphenylidi[2,4-Dimethylphenyl]arsoniumhydroxyd. Sm. 122° (A. 321, 225 C. 1902 [2] 48).  
 2) Acetat d. Corybulbin. Sm. 160° (Soc. 79, 88).
- $C_{23}H_{27}O_5N$  3) Diäcetylcorytuberin. +  $C_5H_8O$ . (Sm. 72°). (2HCl, PtCl<sub>4</sub>), (HCl, AuCl<sub>3</sub>) (Ar. 240, 109 C. 1902 [1] 820).  
 $C_{23}H_{25}O_3N_4$  2) Methylenedicytisin. Sm. 212° u. Zers. (B. 34, 618).  
 $C_{23}H_{25}O_3N_2$  5) Brucidin. Sm. 198°. HCl (B. 34, 3297).  
 $C_{23}H_{25}O_4N_2$  \* 3) Äthylcarbonat d. Chinin (C. 1901 [1] 652).  
 $C_{23}H_{29}O_4N$  3) 2,6-Dipropyläther d. 4-Oximido-2,6-Di[2-Oxyphenyl]tetrahydro-1,4-Pyran. Sm. 170° (C. 1902 [1] 206).  
 4) Isoamylester d. Benzoyl-4-Butoxyphenylamidoameisensäure. Sm. 86—88° (D. R. P. 73285). — \* II, 740.
- $C_{23}H_{30}OS_2$  1) Dibenzyläther d.  $\beta\zeta$ -Dimerkapto- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Fl. (B. 35, 815 C. 1902 [1] 757).  
 $C_{23}H_{30}O_4N_2$  2) Tetrahydrobrucin. Sm. 200—201°. HCl, 2HCl (B. 34, 3295).  
 3) Verbindung (aus Tetrahydrobrucin (B. 34, 3297).  
 $C_{23}H_{30}O_5S_2$  1)  $\beta\zeta$ -Di[Benzylsulfon]- $\delta$ -Keto- $\beta\zeta$ -Dimethylheptan. Sm. 171—172° (B. 35, 815 C. 1902 [1] 757).  
 C 74,8 — H 8,4 — O 13,0 — N 3,8 — M. G. 369.
- $C_{23}H_{31}O_3N$  1) Nitril d. Tri[4-Methoxyphenyl]essigsäure. Sm. 128,5—129° (B. 35, 3029 C. 1902 [2] 1114).  
 $C_{23}H_{31}O_{12}N_3$  C 51,0 — H 5,7 — O 35,5 — N 7,7 — M. G. 541.  
 1) Verbindung (aus Oxalessigsäurediäthylester u. 4-Nitrobenzamidin). Sm. 128° u. Zers. (B. 34, 1989).  
 C 71,9 — H 8,3 — O 12,5 — N 7,3 — M. G. 384.
- $C_{23}H_{32}O_3N_2$  1) Diamyläther d. s-Di[4-Oxyphenyl]harnstoff. Sm. 170° (B. 34, 1943).  
 $C_{23}H_{32}O_4N_2$  \* 1) Yohimbin (C. 1902 [2] 1510).  
 C 57,4 — H 7,3 — O 26,6 — N 8,7 — M. G. 481.
- $C_{23}H_{35}O_8N_3$  1) Cetyl ester d. 2,4,6-Trinitrobenzol-1-Carbonsäure. Sm. 121—122° (B. 29, 1399). — \* II, 777.  
 C 77,1 — H 10,6 — O 4,5 — N 7,8 — M. G. 358.
- $C_{23}H_{35}ON_2$  1) Benzylidenhydrazid d. Palmitinsäure. Sm. 78° (J. pr. [2] 64, 425 C. 1902 [1] 24).  
 $C_{23}H_{35}O_2N_2$  2) s-Benzoylpalmitylhydrazin. Sm. 108° (J. pr. [2] 64, 427 C. 1902 [1] 24).  
 3) 2-Oxybenzylidenhydrazid d. Palmitinsäure. Sm. 104° (J. pr. [2] 64, 425 C. 1902 [1] 24).

- $C_{23}H_{15}ON_2Cl$  1) 5,7-Anhydro-7-Phenyl oxydhydrat d. 9-Chlor-5-Oxy-10-Methyl- $\alpha\beta$ -Naphtophenazin (B-o-Methylechlorrosindon). subl. bei 300° (B. 34, 945).

- $C_{23}H_{15}O_2N_2Br$  1) Benzoat d. 2-Oxy-1-[3-Bromphenylazo]naphtalin. Sm. 159° (Soc. 81, 1206 C. 1902 [2] 894).  
 2) Benzoat d. 2-Oxy-1-[4-Bromphenylazo]naphtalin. Sm. 157° (Soc. 81, 1207 C. 1902 [2] 894).
- $C_{23}H_{16}N_2ClBr$  1) 7-Bromphenylat d. 9-Chlor-10-Methyl- $\alpha\beta$ -Naphtophenazin (B. 34, 943).
- $C_{23}H_{17}ON_2Cl$  2) 7-Phenyl oxyhydrat d. 9-Chlor-10-Methyl- $\alpha\beta$ -Naphtophenazin. Salze siehe (B. 34, 943).  
 3) 7-Chlorphenylat d. 8-Oxy-10-Methyl- $\alpha\beta$ -Naphtophenazin. 2 +  $PtCl_4$  (B. 34, 948).  
 4) 7-Chlorphenylat d. 9-Oxy-10-Methyl- $\alpha\beta$ -Naphtophenazin. 2 +  $PtCl_4$  (B. 34, 941).  
 5) Methyläther d. 5-Oxy- $\alpha\beta$ -Naphtophenazin-7-Chlorphenylat. 2 +  $PtCl_4$  (A. 322, 75 C. 1902 [2] 225).
- $C_{23}H_{17}ON_2Br$  1) p-Brom-1-Phenacyl-2,4-Diphenylimidazol. Sm. 176° (B. 34, 1833).
- $C_{23}H_{17}O_3N_2Br$  1)  $\beta$ -Brom- $\gamma$ -Phenylimido- $\alpha$ -Phenylbenzoylamidopropen- $\alpha$ -Carbonsäure (Benzoylanilimukonilidbromsäure). Sm. 103—105° (B. 34, 515). — \*II, 749.
- $C_{23}H_{18}ON_2Cl$  1) 7-Methyloxyhydrat d. 9-Chlor-5-Phenylamido- $\alpha\beta$ -Naphtophenazin. Chlorid, 2 Chlorid +  $PtCl_4$ , Bichromat (B. 34, 1098).
- $C_{23}H_{18}O_3ClBr$  1)  $\alpha$ -Benzoylchlorbromdiphenacyl. Sm. 152° (B. 34, 1612).  
 2)  $\beta$ -Benzoylchlorbromdiphenacyl. Sm. 134—135° (B. 34, 1612).
- $C_{23}H_{18}O_4N_2S$  1) 4-[4-Methylbenzol]sulfonat d. 2-Oxy-1-[4-Oxyphenylazo]-naphtalin. Sm. 157—157,5° (B. 34, 238).
- $C_{23}H_{19}ON_2Br$  1) Phenacylbromid d. 2,4-Diphenylimidazol. Sm. 222° (B. 34, 1832).
- $C_{23}H_{21}ONS_2$  1) Benzyläther-3-Methylbenzyläther d. Benzoylimidodimerkaptomethan. Sm. 97—98° (Am. 26, 203).
- $C_{23}H_{21}O_8N_3S_2$  1)  $\alpha$ -Äthylimido- $\alpha\alpha$ -Di[5-Oxy-2-Naphtylamido]methan-7,7'-Disulfonsäure (D.R.P. 129 417 C. 1902 [1] 789).
- $C_{23}H_{22}ON_2Br_2$  1) trans- $\alpha\beta$ -Dibrom- $\alpha$ -Phenylamido- $\gamma$ -Benzoylphenylamidobutan. Sm. 227° (A. 318, 84).
- $C_{23}H_{22}O_3N_2S_2$  2)  $\beta\beta$ -Di[ $\beta$ -Phtalylamidoäthylsulfon]propan (Diphtalimidossulfonal) (B. 35, 1373 C. 1902 [1] 1089).
- $C_{23}H_{23}O_2N_2Br$  1) 6-Brom-3,5-Di[2-Methylphenylamido]-2-Isopropyl-1,4-Benzochinon. Sm. 131° (B. 35, 1507 C. 1902 [1] 1211).
- $C_{23}H_{24}O_2ClAs$  1) Tri[4-Methylphenyl]chlorarsoniumessigsäure. Sm. 146° (A. 321, 208 C. 1902 [2] 47).
- $C_{23}H_{24}O_6N_2Cl$  1) 2-Chlor-1,3,5-Trinitrobenzol + Di[4-Dimethylamidophenyl]methan. Sm. 71° (C. r. 135, 347 C. 1902 [2] 798).
- $C_{23}H_{25}O_4N_4Cl$  1) 4-Chlor-1,3-Dinitrobenzol + Di[4-Dimethylamidophenyl]methan. Sm. 72° (C. r. 135, 346 C. 1902 [2] 798).
- $C_{23}H_{26}O_4N_3S$  2)  $\alpha$ -Oxy-4,4'-Di[Dimethylamido]triphenylmethan-2''-Sulfonsäure (D.R.P. 80982). — \*II, 667.  
 3)  $\alpha$ -Oxy-4,4'-Di[Dimethylamido]triphenylmethan-3''-Sulfonsäure (D.R.P. 25 273). — \*II, 668.  
 4) 3-Oxy-4,4'-Di[Dimethylamido]triphenylmethan-4-Sulfonsäure. (D.R.P. 64 736). — \*II, 543.
- $C_{23}H_{27}O_2N_2P$  1) Di[Phenylamid] d. Phosphinsäure  $C_{11}H_{17}O_4P$ . Sm. 227—228° (B. 34, 1299).

## — 23 V —

- $C_{23}H_{16}O_6N_3S_2Cl$  1) 5',7-Anhydro-9-Chlor-5-Phenylamido- $\alpha\beta$ -Naphtophenazin-3,5'-Disulfonsäure-7-Methyloxyhydrat +  $H_2O$  (B. 34, 1099).

**C<sub>24</sub>-Gruppe.**

- $C_{24}H_{40}$  C 87,8 — H 12,2 — M. G. 328.  
 1)  $\alpha$ -[2,4-Dimethylphenyl]- $\alpha$ -Hexadeken. Sd. 254°<sub>17</sub> (B. 35, 2261 C. 1902 [2] 275).  
 2) Kohlenwasserstoff (aus Petroleum). Sd. 272—274°<sub>50</sub> (Am. 28, 190 C. 1902 [2] 1082).  
 \*1) Tetrakosan. Sm. 48°; Sd. 272—274°<sub>50</sub> (Am. 28, 190 C. 1902 [2] 1082).



- $C_{24}H_{12}O_4$  C 79,1 — H 3,3 — O 17,6 — M. G. 364.  
 1) Bisnaphtaronyl. Sm. noch nicht bei 335° (*Soc.* 81, 423 *C.* 1902 [1] 758, 999).
- $C_{24}H_{14}O_7$  2) Dioxyfluorescein (aus Naphtalin-1,2-Dicarbonsäure) (*B.* 35, 1784 *C.* 1902 [2] 53).
- $C_{24}H_{10}O_4$  6) Dibenzoat d. 1,8-Dioxynaphtalin. Sm. 174—175° (D.R.P. 129035 *C.* 1902 [1] 688).  
 C 72,0 — H 4,0 — O 24,0 — M. G. 400.
- $C_{24}H_{16}O_6$  1) Disalicylat d. 1,2-Dioxynaphtalin. Sm. 137° (D.R.P. 43713). — \*II, 889.
- $C_{24}H_{17}N$  3) 9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 213°. HCl, (2HCl, PtCl<sub>4</sub>) (*B.* 35, 317 *C.* 1902 [1] 592).
- $C_{24}H_{18}O$  4) Verbindung (aus Acetophenon u. Malonsäurediäthylester). Sm. 183° (*B.* 34, 1958).
- $C_{24}H_{18}O_3$  3) Acetat d. 7-Oxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 125 bis 127° (*B.* 35, 1522 *C.* 1902 [1] 1210).
- $C_{24}H_{18}O_4$  9) Aethylester d. Fluoren-9-Benzoxylmethylen-carbonsäure. Sm. 141 bis 142° (*B.* 35, 763 *C.* 1902 [1] 814).
- $C_{24}H_{18}O_6$  \*7) Aethylester d. Fluoresceinacetat. Sm. 191° (*B.* 34, 2642).
- $C_{24}H_{18}O_9$  3) Tetraacetat d. Verb. C<sub>16</sub>H<sub>10</sub>O<sub>5</sub>. Sm. 239—240° (*B.* 35, 1674 *C.* 1902 [1] 1355).
- $C_{24}H_{18}N_2$  7) 2,2'-Diphenylazobenzol. Sm. 144,5° (*J. pr.* [2] 63, 464).  
 8) 10-Amido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 276°. HCl (*B.* 35, 320 *C.* 1902 [1] 593).
- $C_{24}H_{18}N_4$  9) Amidotoluphenylnaphtakridin (D.R.P. 127586 *C.* 1902 [1] 339).  
 10) Tri[3-Cyanbenzyl]amin. Sm. 118—119° (*B.* 34, 3369).
- 11) 4-Phenylazo-1-[ $\alpha$ -Cyanbenzyl]amidonaphtalin. Sm. 142° (*B.* 35, 3350 *C.* 1902 [2] 1195).  
 C 89,7 — H 5,9 — N 4,4 — M. G. 321.
- $C_{24}H_{19}N$  1) Methylphenylnaphtakridin. Sm. 213° (*C.* 1901 [1] 348).
- $C_{24}H_{19}N_5$  \*2) Anilidophenosafuranin. H<sub>2</sub>SO<sub>4</sub> (*C.* 1902 [2] 903).
- $C_{24}H_{20}O_3$  5) 4-Methyläther- $\beta$ -Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Phenyl- $\epsilon$ -[4-Oxyphenyl]- $\alpha\delta$ -Pentadien. Sm. 119—120° (*B.* 35, 3558 *C.* 1902 [2] 1311).  
 6) 4-Methyläther- $\beta$ -Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -[4-Oxyphenyl]- $\epsilon\epsilon$ -Phenyl- $\alpha\epsilon$ -Pentadien. Sm. 155° (*B.* 35, 3558 *C.* 1902 [2] 1311).
- 7) Dimethyläther d. 5,7-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 140—142° u. Zers. (*B.* 35, 1804 *C.* 1902 [2] 118).
- 8) Dimethyläther d. 7,8-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 141—143° u. Zers. (*B.* 35, 1802 *C.* 1902 [2] 117).
- 9) Acetat d. 7-Oxy-2-Phenyl-4-Benzyl-1,4-Benzpyran. Sm. bei 60° (*B.* 35, 1525 *C.* 1902 [1] 1210).
- $C_{24}H_{20}O_4$  10) Methyl ester d.  $\delta$ -Keto- $\alpha\gamma\delta$ -Triphenyl- $\alpha$ -Buten- $\beta$ -Carbonsäure. Sm. 113,5° (*A.* 319, 168 *C.* 1902 [1] 104).  
 6) Methyl ester d. 2,4-Dibenzoyl-1,3-Dimethylbenzol-5-Carbonsäure. Sm. 125—126° (*Soc.* 81, 1317 *C.* 1902 [2] 1181).
- 7) Diacetat d. 9-Oxy-4-[ $\alpha$ -Oxybenzyl]fluoren. Sm. 126° (*M.* 23, 39 *C.* 1902 [1] 876).
- $C_{24}H_{20}O_5$  4) Gem. Anhydrid d. Essigsäure u. 4-Acetoxytriphenyllessigsäure. Sm. 208° u. Zers. (*B.* 34, 3066).
- $C_{24}H_{20}O_6$  \*5) Tribenzoat d.  $\alpha\beta\gamma$ -Trioxypropan (*G.* 32 [1] 265 *C.* 1902 [1] 1224).
- $C_{24}H_{20}O_7$  3) Tetramethyläther d. Gallein. Sm. 199° (*Am.* 26, 137).  
 4) isom. Tetramethyläther d. Gallein. Sm. 195° (*Am.* 26, 138).
- $C_{24}H_{20}O_8$  2) 1,3-Diphenyl-R-Tetramethylen-2,4-Di[Aethenyl- $\beta\beta$ -Dicarbonsäure]. Sm. 195°. + 2KHSO<sub>3</sub> + 6H<sub>2</sub>O (*B.* 28, 1438; *B.* 35, 2412 *C.* 1902 [2] 444; *Am.* 28, 235 *C.* 1902 [2] 1047).  
 3) Tetraacetat d. Verbindung C<sub>16</sub>H<sub>12</sub>O<sub>4</sub> (aus Brasileïn). Sm. 210—211° (*M.* 22, 212).
- $C_{24}H_{20}N_2$  \*8) s-Di[4-Biphenyl]hydrazin. Sm. 167—169° (*J. pr.* [2] 63, 449).  
 12) 4,4'-Diamido-3,3'-Diphenylbiphenyl. Sm. 151—152°. 2HCl, (2HCl, PtCl<sub>4</sub>) (*J. pr.* [2] 63, 461).  
 13) s-Di[2-Biphenyl]hydrazin. Sm. 182° (*J. pr.* [2] 63, 459).

- $C_{24}H_{20}N_2$  14) 10-Amido-9-Methyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 271° (B. 35, 319 C. 1902 [1] 593).
- $C_{24}H_{20}N_4$  3) 4,4'-Di[Phenylamido]azobenzol<sup>9</sup> Sm. 183° (C. 1901 [1] 106).  
4) B-Dimethylnaphthosafranin. +  $C_6H_6$ . HCl, (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ),  $HNO_3$  (C. 1902 [2] 804).
- $C_{24}H_{20}N_6$  2) 4,4'-Di[4-Amidophenylazo]biphenyl (D.R.P. 42227; D.R.P. 131860 C. 1902 [2] 83).
- $C_{24}H_{20}As_2$  \*1) Tetraphenyldiarsin (Phenylkakodyl). Sm. 135° (A. 321, 148 C. 1902 [2] 43).
- $C_{24}H_{20}Si$  \*1) Siliciumtetraphenyl (Soc. 79, 451).
- $C_{24}H_{22}O_4$  11) Verbindung (aus Hydrochinon u. Zimmtsäurealdehyd). Sm. 53—55° (B. 35, 1210 C. 1902 [1] 998).
- $C_{24}H_{22}O_{10}$  3) Pseudoononin. Sm. 206—210° (M. 23, 150).
- $C_{24}H_{22}O_{12}$  5) Hexaacetat d. 3,4,5,3',4',5'-Hexaoxybiphenyl. Sm. 162—163° (B. 35, 2958 C. 1902 [2] 1041).
- $C_{24}H_{22}N_2$  6) Hexaacetat d.  $\beta$ -Hexaoxybiphenyl. Sm. 169—172° (M. 22, 594).  
9) 2-Phenylhydrazon-1-Methyl-4,5-Diphenyl-2,3-Dihydro-R-Penten. Sm. 145—152° (Soc. 79, 1033).
- $C_{24}H_{24}O_3$  C 80,0 — H 6,7 — O 13,3 — M. G. 360.
- $C_{24}H_{24}O_{11}$  1) Benzot d. d-1-Oxy-2-Benzoylcamphe. Sm. 144° (Soc. 79, 991).  
C 59,0 — H 4,9 — O 36,1 — M. G. 488.
- 1) Pseudoonospin +  $2\frac{1}{2}H_2O$ . Sm. 220—221° (wasserfrei) (M. 23, 157 C. 1902 [1] 1104).
- $C_{24}H_{24}N_6$  4) Tri[4-Methylphenyl]isomelamin. Sm. 183° (J. pr. [2] 65, 374 C. 1902 [1] 1329).
- $C_{24}H_{25}N_3$  C 75,2 — H 6,5 — N 18,3 — M. G. 383.  
1) 3,5-Di[Phenylimido]-4-Phenyl-1,2-Dimethyltetrahydro-1,2,4-Triazol. Sm. 159—160° (B. 35, 1722 C. 1902 [2] 31).
- $C_{24}H_{26}O$  3) Äthyläther d.  $\alpha$ -Oxytri[4-Methylphenyl]methan. Sm. 105° (C. 1901 [1] 1162). — \*II, 669.
- $C_{24}H_{26}O_7$  C 67,6 — H 6,1 — O 26,3 — M. G. 426.
- $C_{24}H_{26}O_8$  1) Anhydrid d. Flavaspidsäure. Sm. 157° (A. 318, 281).
- $C_{24}H_{26}O_9$  \*6) Lobarsäure. Sm. 192—193° (A. 317, 134).
- C 62,9 — H 5,7 — O 31,4 — M. G. 458.
- $C_{24}H_{26}O_{10}$  1) Diacetat d. Verb.  $C_{26}H_{26}O_7$ . Sm. 183° (Am. 25, 409).  
2) Onospin (M. 23, 148 C. 1902 [1] 1104).
- $C_{24}H_{27}N$  3) Tetraacetat d.  $\beta$ -Naphtolglykosid. Sm. 135—136° (B. 34, 2900).
- $C_{24}H_{27}N_3$  3)  $\alpha$ -Amylamidotriphenylmethan. Fl. (B. 35, 1829 C. 1902 [2] 212).
- $C_{24}H_{27}P$  5) Benzylauramin (D.R.P. 136616 C. 1902 [2] 1376).
- 1) Tri[2,4-Dimethylphenyl]phosphin. Sm. 154° (A. 315, 98).
- 2) Tri[2,5-Dimethylphenyl]phosphin. Sm. 155°. +  $HgCl_2$  (A. 315, 99).
- $C_{24}H_{27}As$  1) Tri[4-Äthylphenyl]arsin. Sm. 78°. +  $HgCl_2$  (A. 321, 226 C. 1902 [2] 48).
- 2) Tri[2,4-Dimethylphenyl]arsin. Sm. 166°. +  $HgCl_2$  (A. 321, 220 C. 1902 [2] 48).
- 3) Tri[2,5-Dimethylphenyl]arsin. Sm. 157°. +  $HgCl_2$  (A. 321, 222 C. 1902 [2] 48).
- 4) Phenylidi[2,4,5-Trimethylphenyl]arsin. Sm. 138,5°. +  $HgCl_2$  (2HCl,  $PtCl_4$ ), (HCl,  $AuCl_3$ ) (A. 321, 229 C. 1902 [2] 48).
- $C_{24}H_{28}O_8$  2) Flavaspidsäure. 2 isom. Formen. Sm. 157—159° (C. 1896 [2] 1037; 1902 [2] 533; A. 318, 277).
- $C_{24}H_{28}N_4$  2) dimolec.  $\beta$ -Di[Phenylhydrazon]hexan. Sm. 175,5° (B. 35, 2169 C. 1902 [2] 261).
- 3) isom. dimolec.  $\beta$ -Di[Phenylhydrazon]hexan. Sm. 188° (B. 35, 2170 C. 1902 [2] 261).
- $C_{24}H_{29}N_3$  5)  $\alpha$ -[2-Methylphenyl]amidodi[4-Dimethylamidophenyl]methan (2-Tolylleukauramin). Sm. 133° (B. 35, 363 C. 1902 [1] 588).
- 6)  $\alpha$ -[4-Methylphenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 150° (B. 35, 364 C. 1902 [1] 588).
- $C_{24}H_{30}N_4$  C 77,0 — H 8,0 — N 15,0 — M. G. 374.
- 1)  $\alpha$ -[2-Amido-4-Methylphenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 165° (B. 35, 371 C. 1902 [1] 588).
- 2)  $\alpha$ -[3-Amido-4-Methylphenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 209° (B. 35, 371 C. 1902 [1] 588).

- $C_{24}H_{32}S_2$  1) Diamyläther d.  $\alpha\beta$ -Dimerkapto- $\alpha\beta$ -Diphenyläthen. Sm. 76—77° (B. 35, 509 C. 1902 [1] 660).
- $C_{24}H_{34}O_8$  C 68,9 — H 8,1 — O 23,0 — M. G. 418.
- $C_{24}H_{34}O_8$  1) Hexaäthyläther d.  $\beta$ -Hexaoxybiphenyl. Sm. 100—102° (M. 22, 592).
- $C_{24}H_{34}O_8$  3) Tetraäthylester d. Benzol-1,4-Di[Propyl- $\beta\beta$ -Dicarbonsäure]. Sm. 75° (B. 34, 2788).
- $C_{24}H_{34}O_{20}$  C 44,9 — H 5,3 — O 49,8 — M. G. 642.
- 1)  $\alpha$ -Tragantaxylanbassorinsäure +  $H_2O$ . CaO, BaO,  $Ag_2O$  (Soc. 79, 1178).
- 2)  $\beta$ -Tragantaxylanbassorinsäure (Soc. 79, 1178).
- $C_{24}H_{36}O_6$  C 68,6 — H 8,6 — O 22,8 — M. G. 420.
- 1) Triamylester d. Benzol-1,3,5-Tricarbonsäure. Sm. 28—29°; Sd. 278—280°<sub>15</sub> (A. 316, 42).
- $C_{24}H_{40}O_4$  \*1) Choleinsäure +  $\frac{1}{2}H_2O$  (H. 36, 553 C. 1902 [2] 1420).
- $C_{24}H_{42}O$  4)  $\alpha$ -Oxy- $\alpha$ -(2,4-Dimethylphenyl)hexadekan. Sm. 23—24°; Sd. 267°<sub>20</sub> (B. 35, 2260 C. 1902 [2] 275).
- $C_{24}H_{42}O_4$  \*1) 1-Dimethylylester d. Bernsteinsäure (C. 1902 [2] 1238).
- $C_{24}H_{42}O_{21}$  4)  $\gamma$ -Maltodextrin (C. 1902 [2] 985; A. 324, 228 C. 1902 [2] 1248).
- 5) Manneotetrose +  $4\frac{1}{2}H_2O$ . Sm. 100° (170° wasserfrei). ( $BaO$ )<sub>3</sub>,  $Pb_4$  (C. r. 134, 1587 C. 1902 [2] 348; Bl. [3] 27, 948 C. 1902 [2] 1177).
- $C_{24}H_{44}N_2$  2) 1,4-Di[Diisobutylamidomethyl]benzol. Sm. 65°. (2HCl,  $PtCl_4$ ), (2HCl, 2AuCl<sub>3</sub>), 2 Pikrat (B. 34, 2085).
- $C_{24}H_{46}O_4$  4) Di[ $\beta$ -Undekylester] d. Oxalsäure. Sm. 34,5° (B. 35, 2144 C. 1902 [2] 260).
- $C_{24}H_{48}O_2$  9) Pisangcerylsäure. Sm. 71° (R. 20, 67).
- $C_{24}H_{50}O$  2) Tricaprylalkohol. Sd. 227—230°<sub>12</sub> (C. 1901 [1] 928).
- 3) Tricaprylalkohol. Sd. oberh. 330° (241—242°<sub>20</sub>) (B. 34, 3247).
- $C_{24}H_{50}S_4$  1) Tetraamyläther d.  $\beta\beta\gamma\gamma$ -Tetramerkaptobutan. Fl. (B. 35, 498, 499 C. 1902 [1] 636).

## — 24 III —

- $C_{24}H_8O_{12}N_4$  C 52,9 — H 1,5 — O 35,3 — N 10,3 — M. G. 544.
- 1) Tetranitrobinaphtaronyl. Sm. noch nicht bei 325° (Soc. 81, 424 C. 1902 [1] 999).
- $C_{24}H_{12}O_7Br_2$  1) Dibromdioxyfluorescein (aus Naphtalin-1,2-Dicarbonsäure). Sm. 220 bis 230° u. Zers. (B. 35, 1785 C. 1902 [2] 53).
- $C_{24}H_{14}O_4N_2$  C 73,1 — H 3,5 — O 16,2 — N 7,1 — M. G. 394.
- 1) 5-Nitro-1-[1-Naphtylamido]-9,10-Anthrachinon (C. 1901 [2] 1373).
- $C_{24}H_{15}ON_3$  \*1) N-Phenyltriphenoxazin. HCl +  $2H_2O$ , (2HCl,  $PtCl_4$ ) (B. 34, 2275; B. 35, 2821 C. 1902 [2] 1000).
- $C_{24}H_{15}O_2N_5$  C 71,1 — H 3,7 — O 7,9 — N 17,3 — M. G. 405.
- 1)  $\beta$ -Nitro-7-Phenylfluorindin (B. 34, 1223).
- $C_{24}H_{15}O_5N_3$  2) Verbindung (aus B-I-Oxybenzolazoxindon u. B-I-Amidobenzolazoxindon). Zers. bei 200° (B. 35, 2819 C. 1902 [2] 999).
- $C_{24}H_{15}O_6Cl$  1) Dibenzolat d. 3-Chlor-7,8-Dioxy-4-Methyl-1,2-Benzpyron. Sm. 166° (B. 34, 360).
- $C_{24}H_{15}O_7N_3$  2) 3,5-Dinitro-2-[2-Naphtyl]benzoylamidobenzol-1-Carbonsäure. Sm. oberh. 300° (M. 22, 396).
- $C_{24}H_{15}N_4Cl$  2) 9-Chlor-7-Phenylfluorindin. HCl (B. 34, 1221).
- $C_{24}H_{16}ON_2$  C 82,8 — H 4,6 — O 4,6 — N 8,0 — M. G. 348.
- 1) Anilichinophtalon. Sm. 230° (A. 315, 347, 350).
- $C_{24}H_{16}O_3N_2$  3) Monophenylhydrazon d. Anhydrobisdiketodihydroinden. Sm. 236° u. Zers. (B. 34, 3269).
- $C_{24}H_{16}O_5N_2$  C 69,9 — H 3,9 — O 19,4 — N 6,8 — M. G. 412.
- 1) 2,5-Di[Phthalylamidomethyl]-1-Oxybenzol. Sm. 295° (D. R. P. 134979 C. 1902 [2] 1084; D. R. P. 134980 C. 1902 [2] 1164).
- $C_{24}H_{17}ON_3$  6) Anhydrid d. 3,9-Di[Phenylamido]phenoxazoniumhydroxyd (A. 322, 16 C. 1902 [2] 221).
- 7) Verbindung (aus  $\alpha$ -Chinophtalin u. Phenylhydrazin). Sm. 165° (A. 315, 349).
- $C_{24}H_{17}O_2N_3$  7) 5,7-Anhydro-1-Acetylamido-5-Oxy- $\alpha\beta$ -Naphtophenazin-7-Phenyl-oxdhydrat (B. 34, 1229).

- $C_{24}H_{17}O_3N$  4) 2-Naphtylester d. 4-Benzoylamidobenzol-1-Carbonsäure. Sm. 210° (B. 35, 3419 C. 1902 [2] 1314).
- $C_{24}H_{17}O_4N_3$  3) Verbindung (aus 2,4-Dinitrobenzylidenamidobenzol). Sm. 180,5° (B. 35, 2716 C. 1902 [2] 638).
- $C_{24}H_{17}O_6N$  C 69,4 — H 4,1 — O 23,1 — N 3,4 — M. G. 415.
- 1) Aethylester d. Fluoren-9-[4-Nitrobenzoxyl]methylen-carbonsäure. Sm. 188—189° (B. 35, 765 C. 1902 [1] 814).
- $C_{24}H_{17}N_2Cl$  1) Amidotolu-p-Chlorphenylnaphtakridin (D.R.P. 127586 C. 1902 [1] 340).
- $C_{24}H_{17}N_4Cl$  1) 3,5-Anhydro-7-Chlor-2-Phenylamido-3-Amido-5,10-Naphtdiazin-5-Phenyl oxyhydrat (B. 34, 1218).
- $C_{24}H_{18}ON_2$  6) 2,2'-Diphenylazoxybenzol. Sm. 157—158° (J. pr. [2] 63, 458).
- 7) Amidotolu-p-Oxyphenylnaphtakridin (D.R.P. 127586 C. 1902 [1] 340).
- $C_{24}H_{18}O_2N_2$  \*4) 2,3-Diketo-1,4-Di[1-Naphtyl]hexahydro-1,4-Diazin. Sm. 280° (B. 35, 3439 C. 1902 [2] 1303).
- \*5) 2,3-Diketo-1,4-Di[2-Naphtyl]hexahydro-1,4-Diazin (B. 35, 3440 C. 1902 [2] 1303).
- 12) 4-[Benzoyl-1-Naphtylhydrazon]-1-Keto-2-Methyl-1,4-Dihydrobenzol. Sm. 166° (Am. 25, 492).
- 13) 5,7-Anhydro-7-Phenyl oxyhydrat d. 5,9-Dioxy-10-Methyl- $\alpha\beta$ -Naphtophenazin-9-Methyläther (o-Methylmethoxyrosindon). Sm. 287 bis 288° (B. 34, 946).
- 14) Methyl-3-Nitrophenylnaphtakridin. Sm. 275° (C. 1901 [1] 348).
- 15) Benzoat d. 1-[4-Oxy-3-Methylphenylazo]naphtalin. Sm. 120° (Am. 25, 494).
- $C_{24}H_{18}O_3N_2$  6) Diphenyläther d. 2,2'-Dioxyazoxybenzol. Sm. 95° (B. 34, 3769 C. 1902 [1] 36).
- 7) Diphenyläther d. 4,4'-Dioxyazoxybenzol. Sm. 115° (B. 34, 3770 C. 1902 [1] 36).
- $C_{24}H_{18}N_4Cl_2$  1) 5-Chlorphenylat d. 7-Chlor-2-Phenylamido-3-Amido-5,10-Naphtdiazin (B. 34, 1218).
- $C_{24}H_{19}ON$  \*6) 1,3-Diphenyl-1,3-Dihydro-4,2- $\beta$ -Naphtisoxazin. Sm. 150° (G. 31 [1] 389).
- 7) 1-[ $\alpha$ -Benzoylamidobenzyl]naphtalin. Sm. 158° (C. 1902 [2] 789).
- 8) 4-Methylphenyl-1-Naphtylamid d. Benzolcarbonsäure. Sm. 140° (J. pr. [2] 64, 499 C. 1902 [1] 256).
- $C_{24}H_{19}ON_3$  6) 4-Oxy-5-[1-Naphtylimido]methyl-3-Methylbenzol. Sm. 158—160° (B. 34, 2100).
- 7) 2,12-Anhydrid d. 10-Dimethylamido-2-Oxy- $\alpha\beta$ -Naphtophenazin-12-Phenyl oxyhydrat (Dimethylnaphtosafraninon) (C. 1902 [2] 805).
- $C_{24}H_{19}O_2N_3$  14) 7-[4-Acetylamidophenyl oxyhydrat] d.  $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (B. 34, 3097).
- $C_{24}H_{19}O_4N_3$  C 69,7 — H 4,6 — O 15,5 — N 10,2 — M. G. 413.
- 1) Di[2-Nitrobenzyl]-1-Naphtylamin. Sm. 148° (Bl. [3] 27, 1057 C. 1902 [2] 1509).
- $C_{24}H_{19}O_6N_3$  C 64,7 — H 4,3 — O 21,6 — N 9,4 — M. G. 445.
- 1) Aethylester d.  $\beta$ -Phenylazo- $\alpha\gamma$ -Diketo- $\gamma$ -Phenyl- $\alpha$ -[4-Nitrophenyl]-propan- $\beta$ -Carbonsäure. Sm. 105° (B. 35, 938 C. 1902 [1] 808).
- $C_{24}H_{19}O_9As$  1) Phenylidi[ $p$ -Methylphenyl]arsin oxyd- $\beta$ -Tetracarbonsäure (Phenyl-ditolyarsin oxydtetracarbonsäure). Sm. 213° (A. 321, 233 C. 1902 [2] 49).
- $C_{24}H_{20}ON_2$  11)  $\alpha$ -Benzyl oxyamido- $\alpha$ -[2-Naphtyl]imido- $\alpha$ -Phenylmethan. Sm. 175° (B. 34, 2630).
- 12) Äthyläther d. 3-Oximido-2,4,5-Triphenylisopyrrol. Sm. 125° (G. 31 [2] 8).
- $C_{24}H_{20}ON_4$  9) Phenylamid d. 2,6-Di[Phenylamido]pyridin-4-Carbonsäure. Sm. 140—141° (B. 35, 2933 C. 1902 [2] 1055).
- $C_{24}H_{20}O_2N_2$  14) Verbindung (aus Trioximidotriphenacylamin). HCl (B. 34, 1906).
- 15) Verbindung (aus Hydrochinon u. Chinolin). Sm. 98—99° (B. 35, 1208 C. 1902 [1] 998).
- $C_{24}H_{20}O_3N_4$  6) 7-[3-Acetylamidophenyl oxyhydrat] d. 5-Amido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (B. 34, 3100).
- 7) 7-[4-Acetylamidophenyl oxyhydrat] d. 5-Amido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (B. 34, 3095).

- $C_{24}H_{20}O_3N_2$  6) Verbindung (aus Benzalcyanhydrin u. Anisaldehyd). Sm. 224° (B. 35, 1591 C. 1902 [1] 1292).
- $C_{24}H_{20}O_4N_2$  4) Äthylester d.  $\beta$ -Phenylazo- $\alpha\gamma$ -Diketo- $\alpha\gamma$ -Diphenylpropan- $\beta$ -Carbonsäure. Sm. 116° (B. 35, 935 C. 1902 [1] 808).
- $C_{24}H_{20}O_4Ti$  1) Tetraphenylorthotitanat (Bl. [3] 19, 190). — \*II, 360.
- $C_{24}H_{20}O_5N_2$  2)  $\beta$ -Di[4-Methylphenylamido]-5,6,8-Trioxo-1,4-Naphtochinon (D.R.P. 127766 C. 1902 [1] 340).
- $C_{24}H_{20}O_6N_2$  \*1) Tetraacetylindigweiss. Sm. 258° (256°) (B. 34, 1859; D.R.P. 126799 C. 1902 [1] 82).
- $C_{24}H_{20}O_6S_2$  2) 2,7-Naphtylenester d. 1-Methylbenzol-4-Sulfonsäure. Sm. 150° (B. 34, 3000).
- $C_{24}H_{20}NBBr$  1) Bromtriphenylmethylat d. Pyridin. Sm. 162° (C. 1902 [2] 1301).
- $C_{24}H_{20}N_2S$  1)  $\alpha$ -Diphenylmethyl- $\beta$ -[2-Naphtyl]thioharnstoff. Sm. 179° (Am. 26, 356).
- 2)  $\alpha$ -Phenyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 185° (C. 1902 [2] 789).
- $C_{24}H_{20}SAs_2$  1) Di[Diphenylarsen]sulfid. Sm. 67° (A. 321, 145 C. 1902 [2] 43).
- $C_{24}H_{20}S_2As_2$  1) Di[Diphenylarsen]disulfid. Sm. 110° (A. 321, 154 C. 1902 [2] 43).
- $C_{24}H_{21}ON$  5) 2-Oxy-1-[ $\alpha$ -Benzylamidobenzyl]naphtalin. Sm. 145° (G. 31 [2] 178).
- 6) Triphenylmethylhydroxyd d. Pyridin. Sm. 85°. Bromid (C. 1902 [1] 1301).
- $C_{24}H_{21}ON_5$  \*2) 12-Phenyloxyhydrat d. 10-Dimethylamido- $\alpha\beta$ -Naphtophenazin. Nitrat (B. 34, 1090).
- $C_{24}H_{21}O_2N_5$  C 70,1 — H 5,1 — O 7,8 — N 17,0 — M. G. 411.
- 1) 3,5-Di[Phenylimido]-1,2-Diacetyl-4-Phenyltetrahydro-1,2,4-Triazol. Sm. 218° (B. 35, 1722 C. 1902 [2] 31).
- $C_{24}H_{21}O_6N$  5) Tribenzylamin-3<sup>1</sup>,3<sup>2</sup>,3<sup>3</sup>-Tricarbonsäure. Sm. 248–249° u. Zers.  $Ag_3$  (B. 34, 3370).
- $C_{24}H_{21}N_3S$  1)  $\alpha$ -Amido- $\alpha$ -Phenyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 178–179° (C. 1902 [2] 790).
- $C_{24}H_{22}ON_2$  3) Verbindung (aus Retenchinon u. Phenylhydrazin). Sm. 159,5–160,5° (B. 34, 539).
- $C_{24}H_{22}O_2N_4$  2)  $\alpha\beta$ -Di[5-Phenylhydrazonmethyl-2-Furanyl]äthan. Sm. 179–181° (Soc. 79, 813).
- $C_{24}H_{22}O_2Se$  2) Diäthyläther d. Di[1-Oxynaphtyl]selenid. Sm. 149° (B. 30, 2824). — \*II, 600.
- $C_{24}H_{22}O_3N_2$  2) Diäthyläther d. 2,2'-Dioxy-1,1'-Azoxynaphtalin. Sm. 205° (C. 1901 [1] 106).
- 3) Phtalein d. 3-Aethylamido-1-Oxybenzol (J. pr. [2] 63, 424).
- 4) Verbindung (aus Trioximidotriphenacylamin).  $2HCl + H_2O$  (B. 34, 1906).
- $C_{24}H_{22}O_4Br_2$  1) Dimethylester d. 1,3-Diphenyl-R-Tetramethylen-2,4-Di[ $\alpha$ -Bromäthylen- $\beta$ -Carbonsäure]. Sm. 115° (Am. 28, 239 C. 1902 [2] 1048).
- $C_{24}H_{22}O_5N_2$  2) Trimethyläther d.  $\beta$ -Phenylhydrazon- $\alpha\gamma$ -Diketo- $\alpha$ -Phenyl- $\gamma$ -[2,4,6-Trioxypheyl]propan. Sm. 137° (B. 35, 1681 C. 1902 [1] 1366).
- 3) Verbindung (aus p-Phenetidin) (Ar. 229, 329). — \*II, 398.
- $C_{24}H_{23}ON$  2) 1-Benzoyl-2,6-Diphenylhexahydropyridin. Sm. 137° (B. 34, 1619).
- 3) 1-Benzoyliso-2,6-Diphenylhexahydropyridin. Sm. 115° (B. 34, 1622).
- 4)  $\alpha$ -Phenyl- $\beta$ -[1-Benzoyl-1,2,3,4-Tetrahydro-2-Chinoly]äthan. Sm. 107° (B. 35, 1958 C. 1902 [2] 131).
- $C_{24}H_{23}O_3N$  5) Dibenzoylphedrin. Sm. 115–116° (Ar. 240, 490 C. 1902 [2] 1327).
- $C_{24}H_{23}O_5S$  1) Phenyl-di[ $\beta$ -Dimethylphenyl]arsinoxid- $\beta$ -Dicarbonsäure (Phenyl-dixylarsinoxiddicarbonsäure). Sm. 199° (A. 321, 233 C. 1902 [2] 49).
- $C_{24}H_{24}ON_2$  \*3) 2- oder 3-Dimethylamido-9-[4-Dimethylamidophenyl]-10-Oxyanthracen (Bl. [3] 25, 318).
- $C_{24}H_{24}O_2N_2$  \*9) Tetramethyldiamidodiphenylphtalid (Bl. [3] 25, 316).
- $C_{24}H_{24}O_2N_4$  C 72,0 — H 6,0 — O 8,0 — N 14,0 — M. G. 400.
- 1) Pyrazolblau (aus 5-Keto-3-Propyl-1-Phenyl-4,5-Dihydropyrazol). Sm. 191° (C. 1901 [1] 1196).
- $C_{24}H_{24}O_3N_4$  3) Tri[ $\beta$ -Oximido- $\beta$ -Phenyläthyl]amin. Sm. 222° u. Zers. (B. 34, 1905).
- 4) Tri[Benzoylamidomethyl]amin. Sm. 180° (C. r. 135, 695 C. 1902 [2] 1381).



- $C_{24}H_{24}O_4N_6$  \*1) Diäthylester d. stabil. 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 222° (224—226°).  $Na_2$ ,  $Ag_2$  (*J. pr.* [2] 63, 20; *Bl.* [3] 27, 116 *C.* 1902 [1] 722).
- 2) Dimethylester d. 3,3'-Dimethyl-4,4'-Biphenylendi[Methylhydrazoncyanessigsäure]. Sm. 266—267° (*Bl.* [3] 27, 120 *C.* 1902 [1] 722).
- 3) Diäthylester d. 4,4'-Biphenylendi[Methylhydrazoncyanessigsäure]. Sm. 210—212° (*Bl.* [3] 27, 110 *C.* 1902 [1] 721).
- 4) Diäthylester d. labil. 3,3'-Dimethyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 174—175° (*J. pr.* [2] 63, 20; *Bl.* [3] 27, 117 *C.* 1902 [1] 722).
- $C_{24}H_{24}O_5S_2$  1)  $\gamma\gamma$ -Dibenzylsulfon- $\alpha$ -Keto- $\alpha$ -Phenylbutan. Sm. 70—76° (*B.* 35, 502 *C.* 1902 [1] 637).
- $C_{24}H_{24}O_6N_6$  \*1) Diäthylester d. stabil. 3,3'-Dimethoxyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 274° (283—284°).  $Na_2$  (*J. pr.* [2] 63, 22; *Bl.* [3] 27, 122 *C.* 1902 [1] 722).
- 2) Diäthylester d. labil. 3,3'-Dimethoxyl-4,4'-Biphenylendi[Hydrazoncyanessigsäure]. Sm. 175—176° (*J. pr.* [2] 63, 22; *Bl.* [3] 27, 122 *C.* 1902 [1] 722).
- $C_{24}H_{24}N_3J$  1) Jodmethylat d. 2-[3-Dimethylamidophenyl]-4,5-Diphenylimidazol.  $HJ + H_2O$  (*J. pr.* [2] 64, 539 *C.* 1902 [1] 261).
- $C_{24}H_{24}N_4As_2$  1) Tetra[P-Amidophenyl]diarsin (*A.* 321, 150 *C.* 1902 [2] 43).
- $C_{24}H_{25}ON$  C 83,9 — H 7,3 — O 4,6 — N 4,1 — M. G. 343.
- 1) Isobutyläther d. 5-Oxy-10-Methyl-5-Phenyl-5,10-Dihydroakridin. Sm. 108,5° (*B.* 35, 3073 *C.* 1902 [2] 1129).
- 2)  $\beta$ -Verbindung (aus Propylbenzylketon u. Benzylidenanilin). Sm. 142 bis 143° (*Soc.* 81, 960 *C.* 1902 [2] 198, 702).
- 3)  $\gamma$ -Verbindung (aus Propylbenzylketon u. Benzylidenanilin). Sm. 143° (*Soc.* 81, 960 *C.* 1902 [2] 198, 702).
- $C_{24}H_{25}O_2N$  C 80,2 — H 7,0 — O 8,9 — N 3,9 — M. G. 359.
- 1) Benzoat d. d-Benzylidencampheroxim. Sm. 106—107° (*C.* 1902 [1] 1296).
- 2) Methylester d. 4-Aethylbenzylamidodiphenylmethan-2'-Carbonsäure. Fl. (*Bl.* [3] 25, 203).
- 3) Phenylbenzylamid d.  $\alpha$ -Oxyisovalerianphenyläthersäure. Sm. 67° (*B.* 34, 2137).
- $C_{24}H_{25}O_2N_3$  C 74,4 — H 6,5 — O 8,3 — N 10,8 — M. G. 387.
- 1) Lakton d.  $\alpha$ -Oxy-3'-Amido-4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure. Sm. 179° (*Bl.* [3] 25, 514).
- $C_{24}H_{25}O_3N$  2) Phenylamidoformiat d. d-1-Oxy-2-Benzoylcamphen. Sm. 117° (*Soc.* 79, 1001).
- $C_{24}H_{25}O_3N_3$  C 71,5 — H 6,2 — O 11,9 — N 10,4 — M. G. 403.
- 1) Diäthyläther d. Benzoyldi[4-Oxyphenyl]guanidin. Sm. 184° (*D.R.P.* 66550). — \*II, 737.
- $C_{24}H_{25}O_4N_5$  C 64,4 — H 5,6 — O 14,3 — N 15,7 — M. G. 447.
- 1) Verbindung (aus Nitrooxydihydrotrimethylbrasilon). Sm. 170° (*Soc.* 81, 1053 *C.* 1902 [2] 749).
- $C_{24}H_{26}ON_4$  3) Verbindung (aus Filicinsäurebutanon u. Phenylhydrazin). Sm. 183 bis 184° (*A.* 318, 243).
- $C_{24}H_{26}O_2N_2$  \*1) 4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure (*Bl.* [3] 25, 317).
- 4) 1,5-Di[1-Piperidyl]-9,10-Anthrachinon. Sm. 192° (*D.R.P.* 136777 *C.* 1902 [2] 1373).
- 5) Phenylamidoformiat d. d-Benzylidencampheroxim. Sm. 169° u. Zers. (*C.* 1902 [1] 1296).
- $C_{24}H_{26}O_2N_4$  6) 4,4'-Bi[5-Keto-3-Propyl-1-Phenyl-4,5-Dihydropyrazol]. Sm. oberh. 335° (*C.* 1901 [1] 1154, 1195).
- $C_{24}H_{26}O_3N_2$  2) Benzoat d.  $\alpha$ -Benzoylamidocampheroxim. Sm. 146—147° (*Soc.* 81, 552 *C.* 1902 [1] 1058, 1334).
- $C_{24}H_{26}O_3N_4$  C 68,9 — H 6,2 — O 11,5 — N 13,4 — M. G. 418.
- 1)  $\alpha$ -[ $\beta$ -Dibenzylhydrazid] d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Äthylester. Sm. 105° (*B.* 34, 2319).
- 2)  $\alpha$ -[ $\beta$ -Dibenzylhydrazid] d.  $\alpha$ -Phenylhydrazin- $\alpha\beta$ -Dicarbonsäure- $\beta$ -Äthylester. Sm. 135—136° (*C.* 1901 [1] 937).

- $C_{24}H_{26}O_8N_4$  \*2) Tetramethylester d. 3,3'-Dimethylbiphenylen-4,4'-Di[Hydrazon-malonsäure]. Sm. 210—212° (*Bl.* [3] 27, 321 *C.* 1902 [1] 1205).
- $C_{24}H_{26}O_{10}N_4$  \*1) Tetramethylester d. 3,3'-Dimethoxybiphenylen-4,4'-Di[Hydrazon-malonsäure]. Sm. 268—270° (*Bl.* [3] 27, 323 *C.* 1902 [1] 1205).
- $C_{24}H_{26}ClAs$  1) Allyltri[4-Methylphenyl]arsoniumchlorid. Fl. 2 +  $PtCl_4$  (*A.* 321, 207 *C.* 1902 [2] 47).
- $C_{24}H_{26}BrAs$  1) Allyltri[4-Methylphenyl]arsoniumbromid. Sm. 82° (*A.* 321, 205 *C.* 1902 [2] 47).
- $C_{24}H_{26}Br_3As$  1)  $\beta\gamma$ -Dibrompropyltri[4-Methylphenyl]arsoniumbromid. Sm. 112° (*A.* 321, 206 *C.* 1902 [2] 47).
- $C_{24}H_{26}JAs$  1) Allyltri[4-Methylphenyl]arsoniumjodid. Sm. 141° (*A.* 321, 207 *C.* 1902 [2] 47).
- $C_{24}H_{27}OP$  1) Tri[2,4-Dimethylphenyl]phosphinoxid (*A.* 315, 99).  
2) Tri[2,5-Dimethylphenyl]phosphinoxid. Sm. 173° (*A.* 315, 100).
- $C_{24}H_{27}OAs$  1) Tri[2,4-Dimethylphenyl]arsinoxid (*A.* 321, 221 *C.* 1902 [2] 48).  
2) Phenylidi[2,4,5-Trimethylphenyl]arsinoxid. Sm. 162,5° (*A.* 321, 231 *C.* 1902 [2] 48).
- $C_{24}H_{27}O_2N_3$  3)  $\alpha$ -Phenylamidodi[4-Dimethylamidophenyl]methan- $\alpha^2$ -Carbon-säure. Sm. 173° (*B.* 35, 373 *C.* 1902 [1] 588).  
4)  $\alpha$ -Phenylamidodi[4-Dimethylamidophenyl]methan- $\alpha^4$ -Carbon-säure. Sm. 192—193°. Na (*B.* 35, 374 *C.* 1902 [1] 588).
- $C_{24}H_{27}O_2P$  1) Tri[4-Methylphenyl]methylphosphorketobetaïn. Sm. 107°. Salze, siehe (*A.* 315, 88).
- $C_{24}H_{27}O_2As$  1) Tri[4-Methylphenyl]methylarsenketobetaïn. Sm. 113° (*A.* 321, 209 *C.* 1902 [2] 47).
- $C_{24}H_{27}Cl_2As$  1) Tri[4-Aethylphenyl]arsindichlorid. Sm. 246° (*A.* 321, 227 *C.* 1902 [2] 48).  
2) Tri[2,5-Dimethylphenyl]arsindichlorid (*A.* 321, 222 *C.* 1902 [2] 48).  
3) Phenylidi[2,4,5-Trimethylphenyl]arsindichlorid. Sm. 217° (*A.* 321, 230 *C.* 1902 [2] 48).
- $C_{24}H_{27}Br_2As$  1) Tri[4-Aethylphenyl]arsindibromid. Sm. 212° (*A.* 321, 227 *C.* 1902 [2] 48).  
2) Phenylidi[2,4,5-Trimethylphenyl]arsindibromid. Sm. 177° (*A.* 322, 230 *C.* 1902 [2] 48).
- $C_{24}H_{27}J_2As$  1) Phenylidi[2,4,5-Trimethylphenyl]arsindijodid. Sm. 163,5° (*A.* 321, 230 *C.* 1902 [2] 48).
- $C_{24}H_{27}SP$  1) Tri[2,4-Dimethylphenyl]phosphinsulfid. Sm. 167° (*A.* 315, 99).  
2) Tri[2,5-Dimethylphenyl]phosphinsulfid. Sm. 170° (*A.* 315, 100).
- $C_{24}H_{27}SAs$  1) Tri[4-Aethylphenyl]arsinsulfid. Sm. 123° (*A.* 321, 227 *C.* 1902 [2] 48).  
2) Tri[2,4-Dimethylphenyl]arsinsulfid. Sm. 145° (*A.* 321, 221 *C.* 1902 [2] 48).  
3) Phenylidi[2,4,5-Trimethylphenyl]arsinsulfid. Sm. 135° (*A.* 321, 232 *C.* 1902 [2] 48).
- $C_{24}H_{28}ON_2$  \*6) Methyläther d.  $\alpha$ -Oxy-4,4'-Di[Dimethylamidotriphenyl]methan (*M.* 22, 608).  
7) Benzyläther d.  $\alpha$ -Oxydi[4-Dimethylamidophenyl]methan. Sm. 102 bis 103° (*C.* 1902 [1] 471).
- $C_{24}H_{28}O_2N_2$  4) Di[Benzoylamido]phellandren. Sm. 198—199° (*A.* 324, 279 *C.* 1902 [2] 1254).  
5) isom. Di[Benzoylamido]phellandren. Sm. 194—195° (*A.* 324, 275 *C.* 1902 [2] 1254).
- $C_{24}H_{28}O_2N_4$  2) 4,8-Di[1-Piperidyl]-1,5-Diamido-9,10-Anthrachinon (D.R.P. 136777 *C.* 1902 [2] 1375).
- $C_{24}H_{28}O_3N_4$  C 68,6 — H 6,6 — O 11,4 — N 13,3 — M. G. 420.  
1) Phenylamidoformiat d.  $\alpha$ -Phenylureidocampherxim. Sm. 175 bis 177° (*Soc.* 81, 554 *C.* 1902 [1] 1058).
- $C_{24}H_{28}O_4N_2$  8) Di[Phenylamidoformiat] d. Campherglykol. Sm. 161—163° (*B.* 35, 3825 *C.* 1902 [2] 1460).
- $C_{24}H_{23}N_3J$  2) Jodmethylat d. Phenylauramin. Sm. 214° (*B.* 35, 2620 *C.* 1902 [2] 594).
- $C_{24}H_{23}JP$  1) Propyltri[4-Methylphenyl]phosphoniumjodid. Sm. 182° (*A.* 315, 85).  
2) Isopropyltri[4-Methylphenyl]phosphoniumjodid. Sm. 184° (*A.* 315, 85).

- $C_{24}H_{38}JAs$  3) Propyltri[3-Methylphenyl]arsoniumjodid. Sm. 143° (*A.* 321, 219 *C.* 1902 [2] 48).
- 4) Isopropyltri[3-Methylphenyl]arsoniumjodid. Sm. 162° (*A.* 321, 220 *C.* 1902 [2] 48).
- 5) Aethylphenyldi[2,4-Dimethylphenyl]arsoniumjodid. Sm. 157° (*A.* 321, 225 *C.* 1902 [2] 48).
- $C_{24}H_{29}O_2As$  1) Tri[4-Aethylphenyl]oxyarsoniumhydroxyd. Sm. 180° (*A.* 321, 227 *C.* 1902 [2] 48).
- 2) Phenyldi[2,4,5-Trimethylphenyl]oxyarsoniumhydroxyd. Sm. 113 bis 114° (*A.* 321, 231 *C.* 1902 [2] 48).
- $C_{24}H_{30}O_2N_2$  3) Di[2-Methylphenylamid] d. Camphersäure. Sm. 218° (*B.* 26 [2] 87). — \*II, 257.
- $C_{24}H_{30}O_3N_2$  2) 2,4,5-Trimethylphenylmonamid d.  $\beta$ -[2,4,5-Trimethylphenyl]-amidoäthen- $\alpha\alpha$ -Dicarbonsäuremonoäthylester. Sm. 180° (*B.* 35, 2508 *C.* 1902 [2] 438).
- $C_{24}H_{30}O_6N_3$  1) Verbindung (aus Acetochlorglykose u. Phenylhydrazin). Sm. 128° (*M.* 22, 383).
- $C_{24}H_{32}O_6N_4$  \*1) Di[Phenylhydrazon] d. Isomaltose. Sm. 149—152° (*B.* 34, 604).
- \*2) Di[Phenylhydrazon] d. Maltose (*B.* 35, 3142 *C.* 1902 [2] 1176).
- 5) Di[Phenylhydrazon] d. Cellobiose. Sm. 198° (*M.* 22, 1021, 1032 *C.* 1902 [1] 183).
- 6) Di[Phenylhydrazon] d. Dextrinose. Sm. 152—153° (*A.* 324, 237 *C.* 1902 [2] 1248).
- 7) Di[Phenylhydrazon] d. Galaktosidogalaktose. Sm. 176—178° (*B.* 35, 3149 *C.* 1902 [2] 1176).
- 8) Di[Phenylhydrazon] d. Galaktosidoglykose. Sm. 173—174° (*B.* 35, 3148 *C.* 1902 [2] 1176).
- 9) Di[Phenylhydrazon] d. Glykosidogalaktose. Sm. 175—177° (*B.* 35, 3149 *C.* 1902 [2] 1176).
- 10) Di[Phenylhydrazon] d. Isolaktose. Sm. 193—196° (*B.* 35, 3152 *C.* 1902 [2] 1177).
- $C_{24}H_{34}N_4S_2$  2) Verbindung (aus Benzaldehyd, Diäthylamin u. Rubeanwasserstoff). Sm. 165° (*C.* 1899 [2] 1025).
- $C_{24}H_{35}O_2N$  C 78,0 — H 9,5 — O 8,7 — N 3,8 — M. G. 369.
- 1) Diäthyläther d. Di[4-Oxy-2-Methyl-5-Isopropylphenyl]amin. Sm. 70—71°. HCl (*B.* 35, 3223 *C.* 1902 [2] 1188).
- 2) Benzoylamid d.  $\alpha$ -Hexadekin- $\alpha$ -Carbonsäure. Sm. 114—115° (*B.* 33, 3590). — \*II, 735.
- $C_{24}H_{35}O_3N_3$  C 56,6 — H 6,9 — O 28,3 — N 8,2 — M. G. 509.
- 1) Verbindung (aus Thymoläthyläther). Sm. 62—63° (*B.* 35, 3219 *C.* 1902 [2] 1187).
- $C_{24}H_{39}O_5N$  C 68,4 — H 9,3 — O 19,0 — N 3,3 — M. G. 421.
- 1) 4-Aethoxyphenylmonamid d. Agaricinsäure. Sm. 100° wasserfrei (*C.* 1902 [1] 823; D.R.P. 134981 *C.* 1902 [2] 1022).

- $C_{24}H_{12}O_{11}N_2Br_2$  1) Diacetat d. 4,5-Dibrom-2,7-Dinitrofluoresceïn. Sm. 215° (*See.* 81, 899 *C.* 1902 [2] 214).
- 2) Diacetat d. 2,7-Dibrom-4,5-Dinitrofluoresceïn. Sm. 276° u. Zers. (*See.* 81, 896 *C.* 1902 [2] 213).
- $C_{24}H_{16}O_3N_4As_2$  1) Tetra[ $\beta$ -Nitrophenyl]diarsin. Sm. 200° (*A.* 321, 149 *C.* 1902 [2] 43).
- $C_{24}H_{18}ON_3Cl$  7) 3,9-Di[Phenylamido]phenoxazoniumchlorid (*A.* 322, 14 *C.* 1902 [2] 221; *B.* 34, 1625).
- 8) 7-[3-Acetylamidochlorphenylat] d.  $\alpha\beta$ -Naphtophenazin (*B.* 34, 3101).
- 9) 7-[4-Acetylamidochlorphenylat] d.  $\alpha\beta$ -Naphtophenazin (*B.* 34, 3097).
- $C_{24}H_{18}ON_4Cl_2$  1) 7-[4-Acetylamidochlorphenylat] d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1106).
- $C_{24}H_{18}O_3N_3Cl$  1) Verbindung (aus Anilinschwarz). Sm. 277° (*B.* 34, 1289).

- $C_{24}H_{18}O_2Cl_2Se$  1) Di[1-Naphtoylmethyl]selenidchlorid (Dichlorselenomethylnaphtylketon). Sm. 116° (A. 314, 294).
- $C_{24}H_{18}O_2Cl_2Te$  1) Di[1-Naphtoylmethyl]telluridchlorid. Sm. 203—204° (A. 315, 18).
- $C_{24}H_{18}N_3ClS$  1) 3,9-Di[Phenylamido]phenazthioniumchlorid (A. 322, 41 C. 1902 [2] 223).
- $C_{24}H_{19}ON_2J$  2) Diphenylthioninchlorid (D.R.P. 126410 C. 1902 [1] 88).
- 2) 7-Jodphenylat d. 9-Oxy-10-Methyl- $\alpha\beta$ -Naphtophenazin-9-Methyläther (B. 34, 945).
- $C_{24}H_{19}ON_4Cl$  6) 7-[3-Acetylamidochlorphenylat] d. 5-Amido- $\alpha\beta$ -Naphtophenazin (B. 34, 3100).
- 7) 7-[4-Acetylamidochlorphenylat] d. 5-Amido- $\alpha\beta$ -Naphtophenazin (B. 34, 3095).
- $C_{24}H_{19}ON_3Cl_2$  1) Azin (aus o-Toluylendiain u. Pyridyloxydichlorechinon) (C. r. 133, 939 C. 1902 [1] 207).
- $C_{24}H_{19}O_2N_3S$  1)  $\alpha$ -[3-Nitrophenyl]- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 191° (C. 1902 [2] 789).
- $C_{24}H_{19}O_2N_4Cl$  1) 7-[4-Acetylamidophenyl oxyhydrat] d. 9-Chlor-5-Amido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (B. 34, 1106).
- $C_{24}H_{19}N_2ClS$  2)  $\alpha$ -[3-Chlorphenyl]- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 172—173° (C. 1902 [2] 789).
- $C_{24}H_{20}O_2N_2S_2$  3) Acetyl-p-Toluthiochinanthren. 2HCl (B. 35, 97).
- $C_{24}H_{21}O_2N_3S_4$  1) Verbindung (aus 4-Amido-1-Oxybenzol) (C. 1901 [2] 567).
- $C_{24}H_{23}ONS_2$  1) Di[3-Methylbenzyläther] d. Benzoylimidodimerkaptomethan. Sm. 89,5—90° (Am. 26, 205).
- 2) Benzyläther-3,5-Dimethylbenzyläther d. Benzoylimidodimerkaptomethan. Sm. 117,5° (Am. 26, 206).
- $C_{24}H_{23}O_4N_5Br_2$  1) Verbindung (aus Nitrooxydihydrotrimethylbrasilon). Zers. bei 220° (Soc. 81, 1054 C. 1902 [2] 756).
- $C_{24}H_{23}O_4Cl_2As$  1) Diäthylester d. Triphenylarsindichlorid-4,4'-Dicarbonsäure. Sm. 176° (A. 321, 198 C. 1902 [2] 46).
- $C_{24}H_{24}O_2N_2Br_2$  1) Phenylamidoformiat d. Verb.  $C_{17}H_{19}ONBr_2$ . Sm. 186—189° (B. 28, 2912). — \*II, 455.
- $C_{24}H_{24}O_3N_3As$  \*1) Tri[ $\beta$ -Acetylamidophenyl]arsin. Sm. 233° (A. 321, 184 C. 1902 [2] 45).
- $C_{24}H_{24}O_2N_3As$  1) Tri[ $\beta$ -Nitro-4-Aethylphenyl]arsinoxyd. Sm. 232° (A. 321, 227 C. 1902 [2] 48).
- 2)  $\beta$ -Nitrophenyl-di[ $\beta$ -Nitro-2,4,5-Trimethylphenyl]arsinoxyd. Sm. 163° (A. 321, 232 C. 1902 [2] 49).
- $C_{24}H_{24}N_4ClP$  \*1) Chlorphostetraanilid (Am. 27, 444 C. 1902 [2] 355).
- $C_{24}H_{24}N_4SAs_2$  1) Di[Di[ $\beta$ -Amidophenyl]arsen]sulfid. Sm. 110°.  $2H_2SO_4$  (A. 321, 146 C. 1902 [2] 43).
- $C_{24}H_{25}OCIP$  1)  $\beta$ -Ketopropyltri[4-Methylphenyl]phosphoniumchlorid. Sm. 245°.  $2 + PtCl_4 + AuCl_3$  (A. 315, 87).
- $C_{24}H_{25}OClAs$  1) Acetonyltri[4-Methylphenyl]arsoniumchlorid. Sm. 170°.  $2 + PtCl_4$  (A. 321, 208 C. 1902 [2] 47).
- $C_{24}H_{25}OBrP$  1)  $\beta$ -Ketopropyltri[4-Methylphenyl]phosphoniumbromid. Sm. 210° (A. 315, 89).
- $C_{24}H_{25}OBrAs$  1) Acetonyltri[4-Methylphenyl]arsoniumbromid. Sm. 159° (A. 321, 209 C. 1902 [2] 47).
- $C_{24}H_{25}OJP$  1)  $\beta$ -Ketopropyltri[4-Methylphenyl]phosphoniumjodid. Sm. 189° (A. 315, 89).
- $C_{24}H_{25}OJAs$  1) Acetonyltri[4-Methylphenyl]arsoniumjodid. Sm. 144° (A. 321, 210 C. 1902 [2] 47).
- $C_{24}H_{27}ONS_2$  1) 1,2-Diphenyl-3-d-Bornylimidoxanthid. Sm. 87—88° (B. 35, 2472 C. 1902 [2] 441).
- 2) 1,2-Diphenyl-3-l-Bornylimidoxanthid. Sm. 87—88° (B. 35, 2472 C. 1902 [2] 441).
- 3) 1,2-Diphenyl-3-r-Bornylimidoxanthid. Sm. 89—90° (B. 35, 2472 C. 1902 [2] 441).
- 4) 1,2-Diphenyl-3-Fenchylimidoxanthid. Sm. 84—85° (B. 35, 2742 C. 1902 [2] 441).
- $C_{24}H_{27}O_{10}S_3P$  1) Phosphat d. Oxymethyl-4-Methylphenylsulfon. Sm. 146° (J. pr. [2] 63, 169).

- $C_{24}H_{27}N_6S_3P$  1) Phosphortri[2-Methylphenylthioharnstoff]. Sm. 81—83° (*Soc.* 79, 547).
- $C_{24}H_{28}OClAs$  1) Phenylidi[2,4,5-Trimethylphenyl]arsinoxychlorid. Sm. 173 bis 175° (*A.* 321, 230 *C.* 1902 [2] 48).
- $C_{24}H_{28}OJAs$  1) Phenylidi[2,4,5-Trimethylphenyl]arsinoxyjodid. Sm. 153° (*A.* 321, 231 *C.* 1902 [2] 48).
- $C_{24}H_{28}O_4N_2S$  1) 4',4''-Di[Dimethylamido]-4-Methyltriphenylmethan-2-Sulfonsäure (D.R.P. 87176). — \*II, 669.
- $C_{24}H_{28}O_6N_2S_2$  1) 4',4''-Di[Dimethylamido]-2-Methyltriphenylmethan-3,5-Disulfonsäure (D.R.P. 128086 *C.* 1902 [1] 447).
- $C_{24}H_{28}ONS_2$  1) 1,2-Diphenyl-3-l-Menthylimidoxanthid. Sm. 105—106° (*B.* 35, 2471 *C.* 1902 [2] 441).
- $C_{24}H_{30}O_5N_4Br_2$  1) Di[4-Bromphenylhydrazon] d. Galaktosidoglykose. Sm. 181° (*B.* 35, 3148 *C.* 1902 [2] 1176).
- 2) Di[4-Bromphenylhydrazon] d. Maltose. Sm. 198° u. Zers. (*B.* 35, 3143 *C.* 1902 [2] 1176).
- 3) Di[4-Bromphenylhydrazon] d. Melibiose. Sm. 182° (*B.* 35, 3143 *C.* 1902 [2] 1176).
- $C_{24}H_{31}O_2N_2J$  1) Aethylester d.  $\alpha\beta$ -Di[2-Isochinolyl]äthan-2-Jodammoniumessigsäure. Sm. 158° (*C. r.* 134, 1358 *C.* 1902 [2] 194).
- $C_{24}H_{39}ONS_2$  1) Cetylester d. Benzoylamidodithioameisensäure. Sm. 63—64° (*C.* 1901 [2] 276).

## — 24 V —

- $C_{24}H_{16}O_8N_4SAs_2$  1) Di[Di(p-Nitrophenyl)arsen]sulfid. Sm. 156° (*A.* 321, 146 *C.* 1902 [2] 43).
- $C_{24}H_{16}O_8N_4S_3As_2$  1) Di[Di(p-Nitrophenyl)arsen]trisulfid. Sm. 69° (*A.* 321, 155 *C.* 1902 [2] 43).
- $C_{24}H_{27}ON_6S_3P$  1) Phosphoryltri[2-Methylphenyl]thioharnstoff (*Soc.* 79, 550).

 **$C_{25}$ -Gruppe.**

- $C_{25}H_{42}$  C 87,7 — H 12,3 — M. G. 342.
- 1)  $\alpha$ -[2,4,6-Trimethylphenyl]- $\alpha$ -Hexadeken. Sm. 28,5—29°; Sd. 260°<sub>23</sub> (*B.* 35, 2262 *C.* 1902 [2] 275).
- $C_{25}H_{52}$  \* 1) Pentakosan. Sm. 53—54°; Sd. 280—282°<sub>50</sub> (*Am.* 28, 192 *C.* 1902 [2] 1082).

## — 25 II —

- $C_{25}H_{14}O_3$  C 82,9 — H 3,9 — O 13,2 — M. G. 362.
- 1) Benzylidenanhydrobisdiketodihydroinden. Sm. 205° (*B.* 34, 3270).
- $C_{25}H_{14}O_4$  C 79,3 — H 3,7 — O 16,9 — M. G. 378.
- 1) Benzoat d. Anhydrobisdiketodihydroinden. Sm. 210—214° u. Zers. (*B.* 34, 3273).
- $C_{25}H_{20}O$  3) 4-Oxytetraphenylmethan. Sm. 232° (*B.* 35, 3018 *C.* 1902 [2] 1112).
- $C_{25}H_{20}O_2$  3) 4,4'-Dioxytetraphenylmethan. Sm. 285—287°. + 2 Mol. Aether (*Soc.* 79, 1209).
- 3) 1-Oxy-3-Keto-4-Methyl-1,5-Diphenyl-2-Benzyliden-2,3-Dihydro-R-Penten. Sm. 225° (*Soc.* 79, 1030).
- $C_{25}H_{20}O_3$  2) Acetat d. 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 134° (*B.* 35, 1809 *C.* 1902 [2] 118).
- $C_{25}H_{20}O_4$  3)  $\beta\delta$ -Lakton d.  $\delta$ -Oxy- $\delta$ -Acetoxy- $\alpha\gamma\delta$ -Triphenyl- $\alpha$ -Buten- $\beta$ -Carbon-säure. Sm. 128—128,5° (*A.* 319, 169 *C.* 1902 [1] 104).
- $C_{25}H_{20}O_5$  3) Diacetat d. 4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Sm. 110—112° u. Zers. (*B.* 34, 2378).
- $C_{25}H_{20}O_6$  3) 6,7-Diacetat d. 4,6,7-Trioxy-2,4-Diphenyl-1,4-Benzpyran (*B.* 34, 3927).
- 4) Dimethylester d. 2,6-Dibenzoyl-1-Methylbenzol-3,5-Dicarbonsäure. Sm. 252° (*Soc.* 81, 1321 *C.* 1902 [2] 1181).
- $C_{25}H_{20}O_8$  C 67,0 — H 4,5 — O 28,5 — M. G. 448.
- 1)  $\alpha\gamma$ - $\epsilon\eta$ -Dilakton d.  $\alpha\gamma$ -Dioxy- $\beta\epsilon$ -Dibenzoxyl- $\delta\delta$ -Dimethyl- $\beta\epsilon$ -Hepta-di $\epsilon\gamma$ -Dicarbonsäure. Sm. 162° (*A.* 315, 155). — \*II, 724.



- $C_{25}H_{26}O_3$  2) Monoacetat d. Galleintrimethyläther. Sm. 197° (*Am.* 26, 136).  
 $C_{25}H_{26}O_3$  3) Triacetat d. Oroxylin. Sm. 150—152° u. Zers. (*Soc.* 79, 955).  
 $C_{25}H_{26}N_2$  \*2)  $\alpha$ -Phenylazotriphenylmethan. Sm. 108,5° (*B.* 35, 3017 *C.* 1902 [2] 1112).  
 4) 9-Methylamido-10-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 270°. HCl (*B.* 35, 329 *C.* 1902 [1] 594).  
 5) 9-Dimethylamido-12-Phenyl- $\alpha$ -Phenakridin. Sm. 216°. HCl (*B.* 35, 327 *C.* 1902 [1] 593).  
 6) Phenyltrimethylamidonaphtakridin (D.R.P. 128754 *C.* 1902 [1] 610).  
 7) 9-Aethylamido-12-Phenyl- $\alpha$ -Phenakridin. Sm. 220—221° (*B.* 35, 327 *C.* 1902 [1] 594).  
 $C_{25}H_{21}N$  \*1)  $\alpha$ -Phenylamidotriphenylmethan. Sm. 149—150° (*B.* 35, 1829 *C.* 1902 [2] 212; *B.* 35, 3016 *C.* 1902 [2] 1112).  
 $C_{25}H_{22}O_4$  2) 3,5-Dimethyl-2,4,6-Triphenylpyridin. Sm. 155—156° (*Soc.* 79, 938).  
 4) 4,4'-Dimethyläther- $\beta$ -Phenyläther d.  $\beta$ -Oxy- $\gamma$ -Keto- $\alpha$ -Di[4-Oxyphenyl]- $\alpha\delta$ -Pentadien. Sm. 136° (*B.* 35, 3558 *C.* 1902 [2] 1311).  
 $C_{25}H_{22}O_5$  2) Gem. Anhydrid d. Essigsäure u. 4-Acetoxy-2-Methyltriphenyl-essigsäure. Sm. 189° (*B.* 34, 3071).  
 $C_{25}H_{22}O_7$  5) Verbindung (aus d. Wurzelrinde von *Piscidia Erythrina* L.). Sm. 159° (*Am.* 25, 406).  
 $C_{25}H_{22}O_{10}$  2) Umbilicarsäure. Sm. 185—186°.  $K_2 + 5H_2O$  (*J. pr.* [2] 63, 545).  
 3) Tetraacetat d. 5,7-Dioxy-3-Aethyl-2-[3,4-Dioxyphenyl]-1,4-Benzpyron (T. d.  $\alpha$ -Aethylulleolin). Sm. 129—130° (*B.* 34, 3721 *C.* 1902 [1] 45).  
 $C_{25}H_{22}N_2$  9) 9-Methylamido-10-Methyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 247° (*B.* 35, 328 *C.* 1902 [1] 594).  
 10) 9-Dimethylamido-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 230° (*B.* 35, 326 *C.* 1902 [1] 593).  
 $C_{25}H_{22}N_6$  C 73,9 — H 5,4 — N 20,7 — M. G. 406.  
 1) 4-[4-Amidophenylazo]-4'-[4-Amido-3-Methylphenylazo]biphenyl. Sm. 160° u. Zers. (D.R.P. 131860 *C.* 1902 [2] 83).  
 $C_{25}H_{24}O_2$  4)  $\beta\delta$ -Dibenzoyl- $\gamma$ -Phenylpentan. Sm. 162—163° (*Soc.* 79, 933).  
 5) isom.  $\beta\delta$ -Dibenzoyl- $\gamma$ -Phenylpentan? Sm. 121—122° (*Soc.* 79, 936).  
 6) 3-Phenyl-2,6-Di[4-Methylphenyl]tetrahydro-1,4-Pyron. Sm. 153 bis 154° (*M.* 22, 754).  
 7) Thymolester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 80—81° (*G.* 32 [1] 181 *C.* 1902 [1] 1054).  
 $C_{25}H_{24}O_4$  6) Diacetat d. 6,6'-Dioxy-3,3'-Dimethyltriphenylmethan. Sm. 121 bis 122° (*B.* 35, 3255 *C.* 1902 [2] 1252).  
 $C_{25}H_{24}O_7$  2) Pentamethyläther d. Gallin. Sm. 127° (*Am.* 26, 141).  
 $C_{25}H_{24}O_{11}$  \*1) Pentaacetat d. Katechin. Sm. 129—131° (*B.* 35, 1868 *C.* 1902 [2] 51; *B.* 35, 2408 *C.* 1902 [2] 448).  
 $C_{25}H_{24}N_4$  C 79,0 — H 6,3 — N 14,7 — M. G. 380.  
 1) Di[ $\alpha\beta$ -Diphenylhydrazido]methan (Methylenbishydrazobenzol). Sm. 145—146° (*J. pr.* [2] 64, 146).  
 $C_{25}H_{26}O_9$  \*1) Eupittonsäure (Eupitton). HCl +  $C_2H_5O$  (*B.* 34, 1026, 1031).  
 $C_{25}H_{26}O_{11}$  C 59,8 — H 5,2 — 35,0 — M. G. 502.  
 1) Ononin. Sm. 204—210° (*M.* 23, 140 *C.* 1902 [1] 1104).  
 $C_{25}H_{28}O_9$  2) Leuko eupitton. Sm. 198° u. Zers. (*B.* 34, 1039).  
 $C_{25}H_{28}N_3$  3) 3,6-Di[Dimethylamido]-9-[4-Dimethylamidophenyl]fluoren. Sm. 214° (*Bl.* [3] 25, 753).  
 $C_{25}H_{31}N_8$  6)  $\alpha$ -[2,4-Dimethylphenyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 147° (*B.* 35, 365 *C.* 1902 [1] 588).  
 $C_{25}H_{32}O_8$  C 67,9 — H 3,2 — O 28,9 — M. G. 442.  
 1) Albaspidin. Sm. 148—149° (*C.* 1896 [2] 1037; *A.* 318, 301).  
 $C_{25}H_{42}O$  \*2) Pentadekyl-2,4,6-Trimethylphenylketon. Sm. 41°; Sd. 262°<sub>13</sub> (*B.* 35, 2261 *C.* 1902 [2] 275).  
 $C_{25}H_{42}O_4$  2) Menthylester d. Mesakonsäure. Fl. (*Soc.* 79, 1310 *C.* 1902 [1] 195).  
 $C_{25}H_{43}J$  1) 4-Jod-2-Hexadekyl-1,3,5-Trimethylbenzol. Sm. 44° (*J. pr.* [2] 65, 578 *C.* 1902 [2] 352).  
 $C_{25}H_{44}O$  4)  $\alpha$ -Oxy- $\alpha$ -[2,4,6-Trimethylphenyl]hexadekan. Sm. 47,5°; Sd. 274,9°<sub>18</sub> (*B.* 35, 2261 *C.* 1902 [2] 275).  
 $C_{25}H_{44}O_4$  C 73,5 — H 10,8 — O 15,7 — M. G. 408.

- $C_{25}H_{14}O_4$  1) Mentylester d. Propan- $\alpha\beta$ -Dicarbonsäure. Fl. (*Soc.* 79, 1310 *C.* 1902 [1] 195).
- $C_{25}H_{14}S_3$  1) Triamyläther d.  $\alpha\gamma\gamma$ -Trimerkapto- $\alpha$ -Phenylbutan. Fl. (*B.* 35, 805 *C.* 1902 [1] 755).
- $C_{25}H_{16}O_{12}$  \*1) Purginsäure (*C.* 1901 [2] 426).
- 25 III —
- $C_{25}H_{17}ON_3$  2) Anhydro-N-Methyltriphenazinnoxin. Sm. noch nicht bei 330° (*B.* 34, 2273).
- $C_{25}H_{18}ON_3$  3) Anilinderivat d. 2,6-Dimethylchinolinphtalon. Sm. 233° (*B.* 34, 2309).
- $C_{25}H_{18}O_2N_4$  4) 1-[4-Methylphenyl]amido-4-[4-Nitro- $\alpha$ -Cyanbenzyliden]amido-naphtalin. Sm. 218° (*J. pr.* [2] 64, 505 *C.* 1902 [1] 257).
- $C_{25}H_{19}O_2N_3$  4) Phenyloxyhydrat d. N-Methyltriphenazinnoxin. Nitrat + 2 H<sub>2</sub>O (*B.* 32, 3527; 34, 2272).
- $C_{25}H_{20}ON_3$  \*1) Tetraphenylharnstoff (*C.* 1902 [1] 20).
- $C_{25}H_{20}O_2N_4$  2)  $\alpha\alpha$ -Di[5-Keto-3-Phenyl-4,5-Dihydro-4-Pyrazolyl]- $\alpha$ -Phenylmethan (*A.* 323, 108 *C.* 1902 [2] 785).
- $C_{25}H_{20}N_3S$  \*3) s-Di[4-Biphenyl]thioharnstoff. Sm. 227,5° (*J. pr.* [2] 63, 457).
- $C_{25}H_{21}ON$  4) 1,3-Diphenyl-2-Methyl-1,2-Dihydro-4,2- $\beta$ -Naphtisoxazin. Sm. 137° (*G.* 31 [2] 183).
- $C_{25}H_{21}ON_3$  3) Farbstoff (aus 4-Methylphenyl-1-Naphtylamin). Sm. 199° (*J. pr.* [2] 64, 512 *C.* 1902 [1] 258).
- $C_{25}H_{21}N_2Cl$  3) Chlormethylat d. 10-Amido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. 2 + PtCl<sub>4</sub> (*B.* 35, 324 *C.* 1902 [1] 593).
- $C_{25}H_{22}ON_2$  2) Methylhydroxyd d. 10-Amido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Chlorid, (2 Chlorid + PtCl<sub>4</sub>), Bichromat (*B.* 35, 325 *C.* 1902 [1] 593).
- $C_{25}H_{23}O_2N_3$  4) 1-Phenylamido-5-[1-Piperidyl]-9,10-Anthrachinon (D.R.P. 136778 *C.* 1902 [2] 1375).
- $C_{25}H_{23}O_7N_3$  1) Anhydrobrasilsäurephenylhydrazon. Sm. 227° (*Soc.* 81, 1033 *C.* 1902 [2] 747).
- 2) Benzolazoderivat d. Cetrarsäure. Sm. 220—222° u. Zers. (*Ar.* 240, 540 *C.* 1902 [2] 1329).
- $C_{25}H_{23}N_2S$  1)  $\alpha$ -Methyl- $\alpha$ -Phenyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 182—183° (*C.* 1902 [2] 789).
- 2)  $\alpha$ -[4-Methylidiphenylmethyl]- $\beta$ -[2-Naphtyl]thioharnstoff. Sm. 170° (*C.* 1902 [2] 789).
- $C_{25}H_{23}O_3N$  2) Benzozat d. Benzoylanhalamin. Sm. 128—129° (*B.* 34, 3007).
- $C_{25}H_{24}O_6N_2$  2) Tetramethyläther d.  $\beta$ -Phenylhydrazon- $\alpha\gamma$ -Diketo- $\alpha$ -[4-Oxyphenyl]- $\gamma$ -[2,4,6-Trioxypheyl]propan. Sm. 169° (*B.* 35, 1682 *C.* 1902 [1] 1366).
- $C_{25}H_{25}O_2N$  2) Methyläther d.  $\alpha$ -[4-Methylphenyl]- $\beta$ -[1-Benzoyl-1,2,3,4-Tetrahydro-2-Chinoly]äthan. Sm. 97° (*B.* 35, 2787 *C.* 1902 [2] 994).
- $C_{25}H_{26}NBr$  1) o-Xylen-2,6-Diphenylpiperidoniumbromid. Sm. 190° (*B.* 34, 1620).
- 2) o-Xylenis-2,6-Diphenylpiperidoniumbromid. Sm. 135° (*B.* 34, 1622).
- $C_{25}H_{28}N_3Cl$  1) Farbstoff + 2 1/2 H<sub>2</sub>O (aus 3,6-Di[Dimethylamido]-9-[4-Dimethylamido-phenyl]fluorcn) (*Bf.* [3] 25, 756).
- $C_{25}H_{29}O_6N_3$  C 64,2 — H 6,2 — O 20,6 — N 9,0 — M. G. 467.
- 1) Diäthylester d.  $\alpha$ -[3-Nitrophenyl]- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]-methan-4',4''-Dicarbonsäure. Sm. 214° (*B.* 35, 1651 *C.* 1902 [1] 1357).
- 2) Diäthylester d.  $\alpha$ -[4-Nitrophenyl]- $\alpha\alpha$ -Di[2,4-Dimethyl-5-Pyrryl]-methan-3',3''-Dicarbonsäure. Sm. 192° (*B.* 35, 1653 *C.* 1902 [1] 1358).
- 3) Diäthylester d.  $\alpha$ -[4-Nitrophenyl]- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]-methan-4',4''-Dicarbonsäure. Sm. 275,5° (*B.* 35, 1651 *C.* 1902 [1] 1357).
- $C_{25}H_{30}O_4N_2$  C 71,1 — H 7,1 — O 15,2 — N 6,6 — M. G. 422.
- 1) Diäthylester d.  $\alpha$ -Phenyl- $\alpha\alpha$ -Di[2,4-Dimethyl-5-Pyrryl]methan-3,3'-Dicarbonsäure. Sm. 188° (*B.* 35, 1653 *C.* 1902 [1] 1358).
- 2) Diäthylester d.  $\alpha$ -Phenyl- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]methan-4,4'-Dicarbonsäure. Sm. 228° (*B.* 35, 1651 *C.* 1902 [1] 1357).
- $C_{25}H_{30}O_2N_2$  3) Diäthylester d. 5-Phenylhydrazon-1-Oxy-1-Methyl-3-Phenylhexahydrobenzol-2,4-Dicarbonsäure. Sm. 168—171° u. Zers. (*A.* 323, 103 *C.* 1902 [2] 785).

- $C_{25}H_{30}O_5N_2$  3) Diäthylester d.  $\alpha$ -[2-Oxyphenyl]- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]-methan-4',4''-Dicarbonsäure. Sm. 212° (B. 35, 1652 C. 1902 [1] 1357).
- $C_{25}H_{30}N_3Cl$  2) 2-Chlor-4',4'',4'''-Tri[Dimethylamido]triphenylmethan. Sm. 170° (Bl. [3] 25, 753).
- 3) Farbstoff + 2 H<sub>2</sub>O (aus Dimethylanilin u. Thalliumchlorid) (B. 35, 2773 C. 1902 [2] 980).
- $C_{25}H_{30}ClAs$  1) Methyltri[2,4-Dimethylphenyl]arsoniumchlorid. 2 + PtCl<sub>4</sub> (A. 321, 221 C. 1902 [2] 48).
- 2) Methyltri[2,5-Dimethylphenyl]arsoniumchlorid. 2 + PtCl<sub>4</sub> (A. 321, 222 C. 1902 [2] 48).
- 3) Methylphenyldi[2,4,5-Trimethylphenyl]arsoniumchlorid. 2 + PtCl<sub>4</sub> (A. 321, 232 C. 1902 [2] 49).
- $C_{25}H_{30}JP$  1) Methyltri[2,4-Dimethylphenyl]phosphoniumjodid. Sm. 230,5° (A. 315, 99).
- 2) Methyltri[2,5-Dimethylphenyl]phosphoniumjodid. Sm. 169° (A. 315, 100).
- $C_{25}H_{30}JAs$  1) Methyltri[4-Aethylphenyl]arsoniumjodid. Sm. 126° (A. 321, 227 C. 1902 [2] 48).
- 2) Methyltri[2,4-Dimethylphenyl]arsoniumjodid. Sm. 179° (A. 321, 221 C. 1902 [2] 48).
- 3) Methyltri[2,5-Dimethylphenyl]arsoniumjodid. Sm. 157° (A. 321, 222 C. 1902 [2] 48).
- 4) Methylphenyldi[2,4,5-Trimethylphenyl]arsoniumjodid. Sm. 179° (A. 321, 232 C. 1902 [2] 49).
- $C_{25}H_{31}ON_3$  4) 4',4'',4'''-Tri[Dimethylamido]-2-Oxytriphenylmethan. Sm. 173° (Bl. [3] 25, 752).
- 5) Aethyläther d.  $\alpha$ -[4-Oxyphenyl]amidodi[4-Dimethylamidophenyl]-methan. Sm. 159—160° (B. 35, 369 C. 1902 [1] 588).
- $C_{25}H_{31}OAs$  1) Methylphenyldi[2,4,5-Trimethylphenyl]arsoniumhydroxyd. Sm. 151° (A. 321, 232 C. 1902 [2] 49).
- $C_{25}H_{31}O_7N_3$  \* 1) Verbindung (aus Eupittonsäure) (B. 34, 1034).
- $C_{25}H_{32}O_6N_2$  C 65,8 — H 7,0 — O 21,1 — N 6,1 — M. G. 456.
- 1) Verbindung (aus Cuminyldenmalonsäurediäthylester d.  $\beta$ -Amidocroton-säurediäthylester). Sm. 172° (B. 35, 2173 C. 1902 [2] 373).
- C 75,0 — H 10,0 — O 8,0 — N 7,0 — M. G. 400.
- $C_{25}H_{40}O_2N_2$  1) 2,4-Diketo-5-Hexadekyl-1-Phenyltetrahydroimidazol. Sm. 81—82° (J. pr. [2] 66, 237 C. 1902 [2] 1122).
- $C_{25}H_{40}O_{20}S_2$  1) Cellulosexanthogenat. Na (B. 34, 1514).

- $C_{25}H_{30}O_3N_2S_2$  1)  $\beta$ -[1,2-Phtalyl]amidoäthyläther-Benzoylimido-dimerkaptomethan. Sm. 119—120° (Am. 26, 202).
- $C_{25}H_{31}ON_2J$  1) 7-Jodphenylat d. 9-Oxy-10-Methyl- $\alpha\beta$ -Naphthophenazin-9-Aethyläther (B. 34, 946).
- $C_{25}H_{21}O_7N_2Br$  1) Anhydrobrasilinsäure-4-Bromphenylhydrazon. Sm. 180—182° (Soc. 81, 1033 C. 1902 [2] 748).
- $C_{25}H_{23}ON_2J$  1) 3-Jodäthylat d. 1-Phenacyl-2,4-Diphenylimidazol. Sm. 202° (B. 34, 1833).
- $C_{25}H_{27}O_2N_2Br$  1) 6-Brom-3,5-Di[2,5-Dimethylphenylamido]-2-Isopropyl-1,4-Benzochinon. Sm. 166° (B. 35, 1507 C. 1902 [1] 1211).
- $C_{25}H_{28}O_2ClP$  1) Aethylester d. Tri[4-Methylphenyl]phosphoniumchloridessig-säure (A. 315, 85).
- $C_{25}H_{31}O_2N_2P$  1) Di[4-Methylphenylamid] d. Phosphinsäure C<sub>11</sub>H<sub>11</sub>O<sub>4</sub>P. Sm. 210° (B. 34, 1299).

- $C_{25}H_{19}O_4N_4ClS$  1) 3,7-Anhydro-9-Chlor-5-[4-Acetylamidophenyl]amido- $\alpha\beta$ -Naphthophenazin-3-Sulfonsäure-7-Methyloxydhydrat + H<sub>2</sub>O (B. 34, 1099).

**C<sub>26</sub>-Gruppe.**

- C<sub>26</sub>H<sub>16</sub>** 2) Kohlenwasserstoff (aus Tetraphenylpinakolin). Sm. 215° (*B.* 29, 2156). — \*II, 134.
- C<sub>26</sub>H<sub>18</sub>** \*2) Dibiphenyläthan. Sm. 246—247° (*B.* 34, 1661).
- 3) Kohlenwasserstoff (aus Diphenylbiphenylpinakolin). Sm. 235° (*B.* 29, 2153). — \*II, 134.
- C<sub>26</sub>H<sub>20</sub>** 5) 9-Phenyl-9-Benzylfluoren ( $\alpha$ -Diphenylbiphenyläthan). Sm. 139° (140°) (*Bl.* [3] 1, 778; *B.* 29, 2154; *A.* 296, 256). — II, 301; \*II, 132.
- 6) Kohlenwasserstoff (aus  $\alpha$ -Benzpinakolinalkohol) (*B.* 29, 2160). — \*II, 133. C 85,7 — H 14,3 — M. G. 364.
- C<sub>26</sub>H<sub>22</sub>** 1) Kohlenwasserstoff (aus Petroleum. Sd. 280—282°<sub>50</sub> (*Am.* 28, 192 *C.* 1902 [2] 1082).
- C<sub>26</sub>H<sub>24</sub>** \*1) Hexakosan. Sm. 58°; Sd. 292—294°<sub>50</sub> (*Am.* 28, 193 *C.* 1902 [2] 1082).
- 26 II —
- C<sub>26</sub>H<sub>16</sub>O<sub>2</sub>** 2) Verbindung (aus d. Kohlenw. C<sub>26</sub>H<sub>16</sub>). Sm. 269° (*B.* 29, 2156). — \*II, 134.
- C<sub>26</sub>H<sub>16</sub>O<sub>4</sub>** C 79,6 — H 4,1 — O 16,3 — M. G. 392.
- 1) Methyläther d. 4-Oxybenzylidenanhydrobisdiketodihydroinden. Sm. 242° (*B.* 34, 3271).
- C<sub>26</sub>H<sub>10</sub>O<sub>9</sub>** \*1) Triacetat d. Cörulein (*Am.* 26, 143).
- 2) Triacetat d. Violeïn (*B.* 34, 2620).
- C<sub>26</sub>H<sub>18</sub>O<sub>2</sub>** 2) Säure (aus Tetraphenylpinakolin). Sm. 242—244° (*B.* 29, 2155). — \*II, 880.
- 3) Verbindung (aus d. Kohlenw. C<sub>26</sub>H<sub>18</sub>). Sm. 168° (*B.* 29, 2153). — \*II, 134.
- C<sub>26</sub>H<sub>18</sub>O<sub>4</sub>** 6) Dixanthoxoniumhydrat. Dibromid, Dinitrat (*B.* 34, 3307).
- C<sub>26</sub>H<sub>19</sub>Br** 1) p-Brom-9-Phenyl-9-Benzylfluoren. Sm. 177° (*Bl.* [3] 1, 778; *B.* 29, 2154). — II, 301; \*II, 133.
- C<sub>26</sub>H<sub>20</sub>O<sub>3</sub>** 2) 4-Benzoat d.  $\alpha$ ,4-Dioxytriphenylmethan. Sm. 132° (*B.* 34, 3077).
- C<sub>26</sub>H<sub>20</sub>O<sub>5</sub>** 2) Diacetat d. 5,7-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 148—149,5° (*B.* 35, 1804 *C.* 1902 [2] 118).
- 3) Diacetat d. 6,7-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran (*B.* 35, 1807 *C.* 1902 [2] 118).
- 4) Diacetat d. 7,8-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 160° u. Zers. (*B.* 35, 1801 *C.* 1902 [2] 117).
- C<sub>26</sub>H<sub>20</sub>O<sub>6</sub>** \*2) Rhizocarpsäure. Sm. 177° (*A.* 321, 44 *C.* 1902 [1] 941).
- C<sub>26</sub>H<sub>20</sub>O<sub>8</sub>** 2) Trimethylester d. 2,4-Dibenzoylbenzol-1,3,5-Tricarbonsäure. Sm. 187° (*Soc.* 81, 1320 *C.* 1902 [2] 1181).
- C<sub>26</sub>H<sub>20</sub>N<sub>2</sub>** \*4) 4,4'-Di[Benzyldenamido]biphenyl. Sm. 229—230° (*J. pr.* [2] 65, 103 *C.* 1902 [1] 992).
- 12) 2- oder 3-[ $\alpha$ -Phenylhydrazonbenzyl]fluoren. Sm. 156° (*M.* 23, 924 *C.* 1902 [2] 1471).
- C<sub>26</sub>H<sub>20</sub>N<sub>4</sub>** 3) 1,3,4,6-Tetraphenyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 203 bis 204° (*B.* 34, 526).
- C<sub>26</sub>H<sub>20</sub>S<sub>2</sub>** 1) Diphenyläther d.  $\alpha\beta$ -Dimerkapto- $\alpha\beta$ -Diphenyläthen. Sm. 160 bis 162° (*B.* 35, 510 *C.* 1902 [1] 660).
- C<sub>26</sub>H<sub>21</sub>N<sub>5</sub>** 2) 5-Phenylimido-3-Phenylamido-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol (oder C<sub>26</sub>H<sub>23</sub>N<sub>5</sub>). Sm. 204° (*J. pr.* [2] 64, 269).
- C<sub>26</sub>H<sub>22</sub>O** \*2) Benzhydroläther. Sm. 109—110° (*B.* 34, 1964).
- 4) Methyläther d. 4-Oxytetraphenylmethan. Sm. 194° (*B.* 35, 3018 *C.* 1902 [2] 1113).
- C<sub>26</sub>H<sub>22</sub>O<sub>2</sub>** \*2) Benzpinakon. Sm. 186° (*B.* 34, 1537).
- 4) 1-Oxy-3-Keto-4-Aethyl-1,5-Diphenyl-2-Benzyliden-2,3-Dihydro-R-Penten. Sm. 178° (*Soc.* 79, 1039).
- C<sub>26</sub>H<sub>22</sub>O<sub>4</sub>** 5)  $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- $\alpha\beta$ -Di[4-Oxyphenyl]äthan (4-Oxybenzpinakon). Sm. 80° (*C.* 1902 [2] 1200).
- C<sub>26</sub>H<sub>22</sub>O<sub>12</sub>** C 59,3 — H 4,2 — O 36,5 — M. G. 526.
- C<sub>26</sub>H<sub>22</sub>N<sub>2</sub>** 1) Tetracetat d. Hydroäsculetin. Sm. 274° u. Zers. (*B.* 34, 2615).
- 9) 9-Dimethylamido-10-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 210°. HCl, HNO<sub>3</sub> (*B.* 35, 334 *C.* 1902 [1] 594).

- $C_{26}H_{22}N_3$  10) 9-Aethylamido-10-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 258°. HCl,  $HNO_3$  (B. 35, 331 C. 1902 [1] 594).
- $C_{26}H_{22}N_4$  9) 4,4'-Di[Phenylhydrazonmethyl]benzol. Sm. 278,5° u. Zers. (C. r. 134, 1360 C. 1902 [2] 195).
- $C_{26}H_{22}N_5$  \*1) Diformazyl. Sm. 226° u. Zers. HCl,  $H_2SO_4$  (J. pr. [2] 64, 216).
- $C_{26}H_{23}N$  \*1)  $\alpha$ -[2-Methylphenyl]amidotriphenylmethan. Sm. 140—142° (B. 35, 1830 C. 1902 [2] 212).
- \*2)  $\alpha$ -[4-Methylphenyl]amidotriphenylmethan. Sm. 177° (B. 35, 1830 C. 1902 [2] 212).
- $C_{26}H_{24}O_6$  6) Dibenzoat d. Aspidinol. Sm. 108—109° (A. 318, 249).
- $C_{26}H_{24}O_7$  C 69,6 — H 5,4 — O 25,0 — M. G. 448.
- 1) Triäthyläther d. Gallein (Am. 26, 140).
- 2) Acetylrosolsäure. Sm. 167—168° (M. 22, 606).
- $C_{26}H_{24}N_3$  2) 9-Dimethylamido-10-Methyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 238° (B. 35, 333 C. 1902 [1] 594).
- 3) 9-Aethylamido-10-Methyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 227° (B. 35, 330 C. 1902 [1] 594).
- $C_{26}H_{24}N_4$  \*2) 1,2,4,5-Tetraphenylhexahydro-1,2,4,5-Tetrazin. Sm. 198—199° (J. pr. [2] 64, 138).
- 4)  $\alpha\beta$ -Di[Phenylimidophenylamidomethyl]hydrazin. Sm. 164—165° (B. 35, 1722 C. 1902 [2] 31).
- C 58,6 — H 5,2 — O 36,1 — M. G. 532.
- 1) Pentaacetat d. Nataloin. Sm. 125—126° (C. 1901 [1] 1318).
- 2) Apiin (oder  $C_{27}H_{30}O_{15}$ ) (A. 318, 121).
- $C_{26}H_{26}O_{10}$  \*1) Kosotoxin. Sm. 62° (80°) (Ar. 239, 684 C. 1902 [1] 269).
- $C_{26}H_{26}O_3$  C 78,0 — H 10,0 — O 12,0 — M. G. 400.
- 1) Styrogenin. Sm. oberh. 360° (C. 1901 [2] 856, 857).
- C 74,6 — H 10,0 — O 15,3 — M. G. 418.
- $C_{26}H_{22}O_4$  1) Verbindung (aus Resorcin u. Cineol). Sm. 80—85° (B. 35, 1209 C. 1902 [1] 998).
- $C_{26}H_{44}O$  10) Sitosterin +  $H_2O$  (oder  $C_{27}H_{44}O$ ; oder  $C_{27}H_{46}O$ ). Sm. 136,5° (H. 34, 461 C. 1902 [1] 744).
- 2) Gitonsäure (oder  $C_{26}H_{46}O_6$ ). Sm. 227°. Mg (B. 34, 3571).
- 3) Apiin (oder  $C_{27}H_{30}O_{15}$ ) (A. 318, 121).
- $C_{26}H_{44}O_6$  \*1) Kosotoxin. Sm. 62° (80°) (Ar. 239, 684 C. 1902 [1] 269).
- $C_{26}H_{46}O_3$  C 78,0 — H 10,0 — O 12,0 — M. G. 400.
- 1) Styrogenin. Sm. oberh. 360° (C. 1901 [2] 856, 857).
- C 74,6 — H 10,0 — O 15,3 — M. G. 418.
- $C_{26}H_{44}S_4$  1) Tetraamyläther d.  $\beta\beta\beta\beta$ -Tetramerkaptohexan. Fl. (B. 35, 504 C. 1902 [1] 637).

- $C_{26}H_{14}O_4N_2$  C 74,6 — H 3,3 — O 15,3 — N 6,7 — M. G. 418.
- 1) Di[2-Naphtyl]indoxylsäureanhydrid (B. 35, 525 C. 1902 [1] 659).
- $C_{26}H_{16}O_2Br_2$  1) Dixanthoxoniumbromid. +  $ZnBr_2$  (B. 34, 3307).
- $C_{26}H_{16}O_2S_2$  1) Diphenyläther d. 1,5-Dimerkapto-9,10-Anthrachinon. Sm. 247° (C. 1901 [1] 210).
- C 57,8 — H 2,9 — O 23,7 — N 15,6 — M. G. 540.
- 1) 4,4'-Di[2,4-Dinitrobenzylidenamido]biphenyl. Sm. 246°. +  $C_6H_6$ , + Nitrobenzol (B. 35, 2709 C. 1902 [2] 637).
- 2) 3-Chlorflavindulinchlorid (B. 34, 1086).
- $C_{26}H_{16}N_2Cl_3$  4) isom. Nitroflavindulinhydrat. Nitrat (B. 34, 1214).
- $C_{26}H_{17}O_2N_3$  C 65,6 — H 3,7 — O 24,6 — N 3,1 — M. G. 455.
- $C_{26}H_{17}O_7N$  1) Tribenzoyloxypyromekazonsäure. Sm. 162—163° (C. 1902 [1] 1365).
- $C_{26}H_{18}ON_2$  4) Monophenylhydrazon d. 9-Keto-2- oder 3-Benzoylfluoren. Sm. 183° (M. 23, 928 C. 1902 [2] 1471).
- 5) Monophenylhydrazon d. 9-Keto-4-Benzoylfluoren. Sm. 171—173° (M. 23, 36 C. 1902 [1] 875).
- $C_{26}H_{18}O_2N_2$  5) 3,3'-Dibenzoylazobenzol. Sm. 141—142° (B. 35, 2352 C. 1902 [2] 517).
- 6) 4,4'-Dibenzoylazobenzol. Sm. 217° (B. 35, 2353 C. 1902 [2] 517).
- C 65,3 — H 3,7 — O 13,4 — N 17,6 — M. G. 478.
- $C_{26}H_{18}O_4N_6$  1) p-Dinitro-1,3,4,6-Tetraphenyl-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. 310° (B. 34, 531).
- 2) 3,6-Diphenyl-1,4-Di[4-Nitrophenyl]-1,4-Dihydro-1,2,4,5-Tetrazin. Sm. noch nicht bei 300° (B. 34, 532).



- $C_{26}H_{15}N_2Cl_2$  1) 4,4'-Di[4-Chlorbenzylidenamido]biphenyl. Sm. 264° (*J. pr.* [2] 65, 265 *C.* 1902 [1] 1214).
- $C_{26}H_{15}N_3Cl$  4) isom. Amidoflavindulinchlorid. 2 +  $PtCl_4$  (*B.* 34, 1214).
- 5) isom. Amidoflavindulinchlorid (*B.* 34, 1216).
- $C_{26}H_{15}ON_3$  9) isom. Amidoflavindulinhydrat. Chlorid, 2 Chlorid +  $PtCl_4$ , Bichromat (*B.* 34, 1214).
- $C_{26}H_{16}O_2As$  1) Di[2-Naphtylester] d. Phenylarsinigesäure. Sm. 113—114° (*A.* 320, 289 *C.* 1902 [1] 919).
- $C_{26}H_{16}O_3N_5$  5) Acetat d. 6-Acetylphenylamido- $\alpha$ - $\beta$ -Naphtophenazin. Sm. 226° (*B.* 34, 1057).
- $C_{26}H_{16}O_5N$  C 73,4 — H 4,5 — O 18,8 — N 3,3 — M. G. 425.
- 1) 4-[4-Nitrobenzoat] d.  $\alpha$ ,4-Dioxytriphenylmethan. Sm. 150° (*B.* 34, 3078).
- $C_{26}H_{16}O_7N_5$  C 60,8 — H 3,7 — O 21,8 — N 13,6 — M. G. 513.
- 1) 2,4,6-Trinitrophenyläther d.  $\alpha$ -Benzoyloxyamido- $\alpha$ -Phenylimido- $\alpha$ -Phenylmethan. Sm. 130—131° u. Zers. (*B.* 34, 2629).
- $C_{26}H_{20}ON_2$  4)  $\alpha$ -Phenylimido- $\alpha$ -Benzoylphenylamido- $\alpha$ -Phenylmethan. Sm. 170 bis 172° (*Soe.* 81, 594 *C.* 1902 [1] 1056, 1333).
- 5) 9-Phenylhydrazon-4-[ $\alpha$ -Oxybenzyl]fluoren. Sm. 194° u. Zers. (*M.* 23, 43 *C.* 1902 [1] 876).
- 6) 10-Acetylamido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 265° (*B.* 35, 322 *C.* 1902 [1] 593).
- $C_{26}H_{20}ON_4$  \*2) 4,4'-Di[Phenylimidomethyl]azoxybenzol. Sm. 185° (*B.* 35, 2436 *C.* 1902 [2] 446; *Am.* 28, 43 *C.* 1902 [2] 701).
- $C_{26}H_{20}OS$  1) Triphenylmethylester d. Benzolthiolcarbonsäure. Sm. 184—185° (*Am.* 26, 357).
- $C_{26}H_{20}OS_2$  1) Diphenyläther d.  $\beta\beta$ -Dimerkapto- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan. Sm. 138° (*B.* 35, 500 *C.* 1902 [1] 637).
- $C_{26}H_{20}O_2N_2$  \*5) 4,4'-Di[Benzoylamido]biphenyl. Sm. 352° (*B.* 35, 1969 *C.* 1902 [2] 111).
- 7) 2,2'-Di[Benzoylamido]biphenyl. Sm. 184° (*B.* 34, 3330).
- 8) 2,4'-Di[Benzoylamido]biphenyl. Sm. 276—278° (*B.* 35, 1969 *C.* 1902 [2] 111).
- 9) Dibenzoyl-4-Amidodiphenylamin. Sm. 203° (*B.* 35, 1971 *C.* 1902 [2] 112).
- 10)  $\alpha\beta$ -Dibenzoyl- $\alpha\beta$ -Diphenylhydrazin. Sm. 138° (*B.* 35, 1966 *C.* 1902 [2] 111; *C. r.* 134, 1509 *C.* 1902 [2] 357).
- 11) Lakton d. 1-[ $\gamma$ -Phenylhydrazon- $\alpha$ -Oxy- $\gamma$ -Phenylpropyl]naphtalin-8-Carbonsäure. Sm. 155—160° (*M.* 22, 827).
- $C_{26}H_{20}O_4N_2$  4) Di[Phenylamidoformiat] d. 2,2'-Dioxybiphenyl. Sm. 144—145° (*B.* 35, 305 *C.* 1902 [1] 586).
- $C_{26}H_{20}O_6N_6$  2)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Nitro-4-Oxyphenyl]äthan. Sm. 211° (*A.* 321, 26 *C.* 1902 [1] 928).
- 3) isom.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Nitro-4-Oxyphenyl]äthan. Sm. 130° (*A.* 321, 27 *C.* 1902 [1] 928).
- 4) isom.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Nitro-4-Oxyphenyl]äthan. Sm. 245° (*A.* 321, 29 *C.* 1902 [1] 928).
- $C_{26}H_{20}N_4Br_2$  1)  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Diphenyläthan. Sm. 233° (*A.* 324, 315 *C.* 1902 [2] 1505).
- $C_{26}H_{21}ON$  2) 3-Cinnamoyl-2-Methyl-4,5-Diphenylpyrrol. Sm. 215° (*B.* 35, 3006 *C.* 1902 [2] 1121).
- $C_{26}H_{21}O_2N_3$  2) Farbstoff (aus 3'-Oxy-4-Methyldiphenylamin u. 3'-Oxy-4-Methyldiphenyl-nitrosamin).  $H_2SO_4$  (*J. pr.* [2] 65, 71 *C.* 1902 [1] 579).
- $C_{26}H_{21}NS$  1) Phenyläther d. 5-Merkapto-10-Methyl-5-Phenyl-5,10-Dihydroakridin (*B.* 35, 880 *C.* 1902 [1] 865).
- $C_{26}H_{22}ON_6$  \*1) 4,4'-Di[Phenylhydrazonmethyl]azoxybenzol. Sm. 225° (*Am.* 28, 42 *C.* 1902 [2] 701).
- $C_{26}H_{22}O_3N_2$  7)  $\alpha$ -Phenylamido- $\beta$ -Phenylimido- $\alpha\beta$ -Di[2-Oxyphenyl]äthan (bim. 2-Oxybenzylidenamidobenzol). Sm. 155° (*B.* 34, 840).
- 8) Di[4-Methylphenyläther] d. 4,4'-Dioxyazobenzol. Sm. 175° (*B.* 34, 3770 *C.* 1902 [1] 36).
- $C_{26}H_{22}O_3N_3$  2) Di[4-Methylphenyläther] d. 4,4'-Dioxyazoxybenzol. Sm. 142° (*B.* 34, 3770 *C.* 1902 [1] 36).
- $C_{26}H_{22}O_5N_4$  C 71,2 — H 5,0 — O 11,0 — N 12,8 — M. G. 438.

- $C_{26}H_{22}O_3N_4$  1) 7-[3-Acetylamidophenyl]oxydhydrat d.  $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (*B.* 34, 3100).  
 2) 7-[4-Acetylamidophenyl]oxydhydrat d. 5-Acetylamido- $\alpha\beta$ -Naphtophenazin. Chlorid, Bichromat (*B.* 34, 3096).
- $C_{26}H_{22}N_2Cl_2$  1) 1,4-Xylylendicholiniumchlorid.  $2 + PtCl_4$ ,  $2 + 2AuCl_3$  (*B.* 34, 2090).
- $C_{26}H_{23}ON$  1) 1,3-Diphenyl-2-Aethyl-1,2-Dihydro-4,2- $\beta$ -Naphtisoxazin. Sm. 146° (*G.* 31 [2] 182).
- $C_{26}H_{23}O_2As$  1) Tetraphenylarsenketobetaïn. Sm. 176°. Salze siehe (*A.* 321, 179 *C.* 1902 [2] 45).
- $C_{26}H_{23}O_5N$  1) Benzoat d. Benzoylanhalonidin. Sm. 125–126° (*B.* 34, 3014).  
 C 65,4 — H 4,8 — O 26,8 — N 2,9 — M. G. 477.
- $C_{26}H_{23}O_8N$  1) Phenylamid d. Cetrarsäure (*Ar.* 240, 533 *C.* 1902 [2] 1328).
- $C_{26}H_{24}OAs_2$  1) Di[Phenyl-4-Methylphenylarsen]oxyd. Fl. (*A.* 321, 156 *C.* 1902 [2] 43).
- $C_{26}H_{24}O_2N_2$  5) 1-[4-Methylphenyl]amido-5-[1-Piperidyl]-9,10-Anthrachinon (D.R.P. 136778 *C.* 1902 [2] 1375).  
 6) 1-[4-Methylphenyl]amido-8-[1-Piperidyl]-9,10-Anthrachinon (D.R.P. 136778 *C.* 1902 [2] 1375).  
 7) Verbindung (aus Toluylaldehydyanhydrin). Sm. 178° (*B.* 35, 1591 *C.* 1902 [1] 1292).  
 C 65,6 — H 5,0 — O 23,5 — N 5,9 — M. G. 476.
- $C_{26}H_{24}O_7N_2$  1) Diacetat d. Diäthylamidooxyphenoxazonoxyphenyläther. Sm. 250 bis 251° (*C.* 1902 [1] 940).  
 C 63,4 — H 4,9 — O 26,0 — N 5,7 — M. G. 492.
- $C_{26}H_{24}O_8N_2$  1) Phenylhydrazon d. Cetrarsäure (*Ar.* 240, 543 *C.* 1902 [2] 1329).
- $C_{26}H_{24}SAs_2$  1) Di[Phenyl-4-Methylphenylarsen]sulfid. Fl. (*A.* 321, 157 *C.* 1902 [2] 43).
- $C_{26}H_{26}O_2N_2$  2) Benzoylallocinchonin. Sm. 118–119°.  $HCl + 2H_2O$  (*M.* 23, 445 *C.* 1902 [2] 376).  
 C 75,3 — H 6,3 — O 11,6 — N 6,8 — M. G. 414.
- $C_{26}H_{26}O_3N_2$  1) Phenylester d. Cinchonidinkohlensäure. Sm. 69° (*C.* 1901 [1] 236).  
 C 67,5 — H 5,6 — O 20,8 — N 6,1 — M. G. 462.
- $C_{26}H_{26}O_6N_2$  1)  $\alpha^2, \alpha^4, \alpha^6$ -Trimethyläther- $\gamma^2$ -Aethyläther d.  $\beta$ -Phenylhydrazon- $\alpha\gamma$ -Diketo- $\gamma$ -[2-Oxyphenyl]- $\alpha\alpha$ -[2,4,6-Trioxyphehyl]propan. Sm. 88–90° (*B.* 35, 1683 *C.* 1902 [1] 1366).
- $C_{26}H_{27}O_2N_3$  2) Phenylamidoformiat d. Allocinchonin. Sm. 191,5–192° (*M.* 22, 201).  
 C 72,7 — H 6,3 — O 11,2 — N 9,8 — M. G. 429.
- $C_{26}H_{27}O_3N_3$  1) Laktone d.  $\alpha$ -Oxy-2'-Acetylamido-4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure. Sm. 209° (*Bl.* [3] 25, 515).  
 1) Laktone d.  $\alpha$ -Oxy-3'-Acetylamido-4',4'-Di[Dimethylamido]triphenylmethan-2'-Carbonsäure. Sm. 157° (*Bl.* [3] 25, 515).  
 C 74,8 — H 6,5 — O 15,4 — N 3,3 — M. G. 417.
- $C_{26}H_{27}O_4N$  1) Benzoat d.  $\alpha$ -Methylmorphimethin. Sm. 138° (*B.* 35, 3012 *C.* 1902 [2] 1133).  
 2) Benzoat d.  $\beta$ -Methylmorphimethin. Sm. 157° (*B.* 35, 3010 *C.* 1902 [2] 1133).  
 3) Benzoat d.  $\gamma$ -Methylmorphimethin. Sm. 100° (*B.* 35, 3013 *C.* 1902 [2] 1133).  
 4) Benzoat d.  $\delta$ -Methylmorphimethin. Sm. 99–108° (*B.* 35, 3011 *C.* 1902 [2] 1133).
- $C_{26}H_{28}O_4N_6$  2) Diäthylester d. 3,3'-Dimethyl-4,4'-Biphenylendi[Methylhydrazoncyanessigsäure]. Sm. 220–222° (*Bl.* [3] 27, 118 *C.* 1902 [1] 722).  
 3) Diäthylester d. 4,4'-Biphenylendi[Aethylhydrazoncyanessigsäure]. Sm. 144–145° (*Bl.* [3] 27, 112 *C.* 1902 [1] 721).  
 C 66,9 — H 6,4 — O 20,6 — N 6,0 — M. G. 466.
- $C_{26}H_{30}O_6N_2$  1) Diäthylester d.  $\alpha$ -[3,4-Dioxyphenylmethylenäther]- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]methan-4',4''-Dicarbonsäure. Sm. 110° (*B.* 35, 1652 *C.* 1902 [1] 1357).
- $C_{26}H_{30}O_8N_4$  \*2) Tetraäthylester d. Biphenylen-4,4'-Di[Hydrazonmalonsäure]. Sm. 178–180°.  $Na_2$  (*Bl.* [3] 27, 314 *C.* 1902 [1] 1204).

- $C_{26}H_{30}O_3N_4$  3) Tetraäthylester d. 1,4,6,8-Naphttetrazin-2,3,7,8-Tetra[Methylsäure]. Sm. 143° (*Bl.* [3] 25, 724).
- 4) Tetraäthylester d. 1,4,7,10-Naphtisotetrazin-2,3,8,9-Tetra[Methylsäure]. Sm. 128° (*Bl.* [3] 25, 723).
- $C_{26}H_{32}O_2N_2$  C 77,2 — H 7,9 — O 7,9 — N 6,9 — M. G. 404.
- 1) Ibogin. Sm. 152° (*C. r.* 133, 850 *C.* 1902 [1] 126).
- $C_{26}H_{32}O_5N_2$  3) Diäthylester d.  $\alpha$ -[4-Methoxyphenyl]- $\alpha\alpha$ -Di[2,4-Dimethyl-5-Pyrryl]methan-3',3''-Dicarbonsäure. Sm. 171—172° (*B.* 35, 1653 *C.* 1902 [1] 1358).
- $C_{26}H_{32}O_6N_2$  C 66,7 — H 6,8 — O 20,5 — N 6,0 — M. G. 468.
- 1) Diäthylester d.  $\alpha$ -[4-Oxy-3-Methoxyphenyl]- $\alpha\alpha$ -Di[2,5-Dimethyl-3-Pyrryl]methan-4',4''-Dicarbonsäure. Sm. 216° (*B.* 35, 1651 *C.* 1902 [1] 1357).
- $C_{26}H_{32}N_2S$  1)  $\alpha\alpha$ -Diisobutyl- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 142 bis 143° (*C.* 1902 [2] 789).
- $C_{26}H_{32}ClP$  1) Äthyltri[2,4-Dimethylphenyl]phosphoniumchlorid. 2 +  $PtCl_4$  (*A.* 315, 99).
- $C_{26}H_{32}JP$  1) Äthyltri[2,4-Dimethylphenyl]phosphoniumjodid. Sm. 225° (*A.* 315, 99).
- 2) Äthyltri[2,5-Dimethylphenyl]phosphoniumjodid. Sm. 220° (*A.* 315, 100).
- $C_{26}H_{32}JAs$  2) Äthylphenylidi[2,4,5-Trimethylphenyl]arsoniumjodid. Sm. 189° (*A.* 321, 232 *C.* 1902 [2] 49).
- $C_{26}H_{33}ON_3$  3) Methyläther d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan. Sm. 165° u. Zers. (158—159°) (*Bl.* [3] 13, 564; *C.* 1902 [1] 471). — \*II, 667.
- $C_{26}H_{34}N_5J_3$  2) Trijodmethylat d. Phenylauramin. Sm. 185° (*B.* 35, 2620 *C.* 1902 [2] 594).
- $C_{26}H_{34}N_4S_2$  1) Verbindung (aus Benzaldehyd, Piperidin u. Rubeanwasserstoff). Sm. 110,5° (*C.* 1899 [2] 1025).
- $C_{26}H_{35}O_{17}Cl$  1) Heptacetylchlorlaktose. Sm. 57—59° (*B.* 35, 841 *C.* 1902 [1] 759).
- 2) isom. Heptacetylchlorlaktose. Sm. 118—120° (*B.* 35, 842 *C.* 1902 [1] 759).
- 3)  $\beta$ -Acetochlormaltose (Heptacetylchlormaltose). Sm. 66—68° (*B.* 34, 2895; *B.* 35, 840 *C.* 1902 [1] 759).
- 4) isom. Heptacetylchlormaltose. Sm. 118—120° (*M.* 23, 45 *C.* 1902 [1] 861).
- 5) Heptacetylchlormilchzucker. Sm. 119—121° (136—141°) (*M.* 23, 5 *C.* 1902 [1] 803; *B.* 35, 1952 *C.* 1902 [2] 109; *M.* 23, 867 *C.* 1902 [2] 1416).
- $C_{26}H_{35}O_{17}Br$  1)  $\beta$ -Acetobrommaltose. Sm. 84° (*B.* 35, 3153 *C.* 1902 [2] 1177).
- 2) Heptacetylbroummilchzucker. Sm. 138° (134°) (*B.* 35, 1952 *C.* 1902 [2] 110; *M.* 23, 872 *C.* 1902 [2] 1416).
- $C_{26}H_{36}O_{18}Cl$  1) Acetochlorcellobiose. Sm. 178° (*M.* 22, 1033 *C.* 1902 [1] 183).
- $C_{26}H_{36}O_{20}N$  C 45,8 — H 5,1 — O 47,0 — N 2,1 — M. G. 681.
- 1) Heptaacetat d. Maltosenitrat. Sm. 93—95° (*B.* 34, 4344 *C.* 1902 [1] 302).
- $C_{26}H_{41}O_4N$  C 72,4 — H 9,5 — O 14,9 — N 3,2 — M. G. 431.
- 1) Menthylester d.  $\beta$ -Phenylamidoformoxyl- $\alpha$ -Phenylakrylsäure. Sm. 235—237° u. Zers. (*C.* 1902 [2] 208).
- $C_{26}H_{42}ON_2$  C 78,4 — H 10,5 — O 4,0 — N 7,0 — M. G. 398.
- 1) 5-Palmitylthylhazonmethyl-2,3-Dihydroinden. Sm. 86° (*J. pr.* [2] 64, 428 *C.* 1902 [1] 24).
- $C_{26}H_{42}O_2N_2$  2,4-Diketo-3-Hexadekyl-1-[2-Methylphenyl]tetrahydrobenzol. Sm. 58° (*J. pr.* [2] 66, 242 *C.* 1902 [2] 1123).
- 3) 2,4-Diketo-3-Hexadekyl-1-[3-Methylphenyl]tetrahydroimidazol. Sm. 78—79° (*J. pr.* [2] 66, 245 *C.* 1902 [2] 1123).
- 4) 2,4-Diketo-3-Hexadekyl-1-[4-Methylphenyl]tetrahydroimidazol. Sm. 95° (*J. pr.* [2] 66, 239 *C.* 1902 [2] 1122).
- $C_{26}H_{50}N_2Cl_2$  1) Dichlorpropylat d. 1,4-Di[Dipropylamidomethyl]benzol. 2 +  $PtCl_4$ , 2 +  $AuCl_3$  (*B.* 34, 2088).
- $C_{26}H_{50}N_2Br_2$  1) Dibrompropylat d. 1,4-Di[Dipropylamidomethyl]benzol. Sm. 223°. Tetrabromid (*B.* 34, 2088).
- $C_{26}H_{54}O_8S_4$  1)  $\beta\beta\epsilon\epsilon$ -Tetraamylsulfonhexan. Sm. 139—140° (*B.* 35, 504 *C.* 1902 [1] 637).

- $C_{26}H_{17}ON_2Cl$  3) 3-Chlorflavindulin. Chlorid, Nitrat (*B.* 34, 1086).
- $C_{26}H_{15}O_2N_4Br_4$  \*1)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 206° (*A.* 321 7 *C.* 1902 [1] 927).
- 2) isom.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 144° (*A.* 321, 8 *C.* 1902 [1] 927).
- $C_{26}H_{15}O_2N_4J_4$  1)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dijod-4-Oxyphenyl]äthan. Sm. 195° u. Zers. (*A.* 321, 17 *C.* 1902 [1] 927).
- 2) isom.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dijod-4-Oxyphenyl]äthan. Sm. 140—141° (*A.* 321, 18 *C.* 1902 [1] 927).
- $C_{26}H_{20}O_2N_4Br_2$  1)  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Brom-4-Oxyphenyl]äthan. Sm. 120° (*A.* 321, 22 *C.* 1902 [1] 927).
- 2)  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 233° (*A.* 324, 317 *C.* 1902 [2] 1505).
- 3) isom.  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 282° (*A.* 324, 314 *C.* 1902 [2] 1505).
- $C_{26}H_{21}O_2N_4Cl$  2) 7-[3-Acetylamidochlorphenylat] d.  $\alpha\beta$ -Naphtophenazin (*B.* 34, 3099).
- 3) 7-[4-Acetylamidochlorphenylat] d. 5-Acetylamido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 3096).
- $C_{26}H_{22}ON_2S$  1) 3-Methylbenzyläther d. Benzoylimido-1-Naphtylamidomerkaptomethan (Benzoyl- $\alpha$ -Naphthylthiol-m-Xylylpseudothioharnstoff). Sm. 133° (*Am.* 26, 418).
- $C_{26}H_{22}OClAs$  1) Benzoylmethyltriphenylarsoniumchlorid. Sm. 166° (*A.* 321, 179 *C.* 1902 [2] 45).
- $C_{26}H_{22}OBrAs$  1) Benzoylmethyltriphenylarsoniumbromid. Sm. 178° (*A.* 321, 178 *C.* 1902 [2] 45).
- $C_{26}H_{23}OJAs$  1) Benzoylmethyltriphenylarsoniumjodid. Sm. 157° (*A.* 321, 179 *C.* 1902 [2] 45).
- $C_{26}H_{23}O_2N_3Cl_5$  1) Tetrachlordimethyldiäthylrhodamin (*Bl.* [3] 25, 747).
- $C_{26}H_{23}O_2N_3S_2$  1) 2-Nitro-4,4'-Di[4-Methylphenylsulfonamido]biphenyl. Sm. 164° (D.R.P. 135016 *C.* 1902 [2] 1166).
- $C_{26}H_{23}O_2N_2Br$  1) 4-Bromphenylhydrazon d. Cetrarsäure (*Ar.* 240, 545 *C.* 1902 [2] 1329).
- $C_{26}H_{24}OCl_4As_2$  1) Di[Pheny-4-Methylphenylarsen]oxydechlorid (*A.* 321, 157 *C.* 1902 [2] 43).
- $C_{26}H_{25}O_4N_3S_2$  1) 2-Amido-4,4'-Di[4-Methylphenylsulfonamido]biphenyl. Sm. 198° (D.R.P. 135016 *C.* 1902 [2] 1166).
- $C_{26}H_{26}O_2N_3J$  1) Jodmethylat d. Isonitrosomethylcinchotoxin (*B.* 33, 3226).
- $C_{26}H_{28}O_4N_2S$  1) Di[ $\epsilon$ -Phtalylamidoamyl]sulfid. Sm. 98° (*B.* 35, 1372 *C.* 1902 [1] 1092).
- $C_{26}H_{28}O_4N_2S_2$  1) Di[ $\epsilon$ -Phtalylamidoamyl]disulfid. Sm. 60° (*B.* 35, 1371 *C.* 1902 [1] 1092).
- 26 V —
- $C_{26}H_{23}ON_4ClS$  1) 4-Acetamidodiphenylthioninchlorid (D.R.P. 126410 *C.* 1902 [1] 88).

**C<sub>27</sub>-Gruppe.**

- $C_{27}H_{18}$  2) Methylenbisfluoren. Sm. noch nicht bei 300° (*B.* 35, 765 *C.* 1902 [1] 815).
- $C_{27}H_{16}$  C 87,6 — H 12,4 — M. G. 370.
- 1) Cholesten (oder  $C_{26}H_{14}$ ; oder  $C_{26}H_{16}$ ) (*M.* 15, 87). — \*II, 90.
- $C_{27}H_{52}$  C 86,2 — H 13,8 — M. G. 376.
- 1) Kohlenwasserstoff (aus Petroleum). Sd. 292—294°<sub>50</sub> (*Am.* 28, 193 *C.* 1902 [2] 1082).
- $C_{27}H_{56}$  \*1) Heptakosan. Sm. 59,3—59,8° (*Soc.* 79, 985).

- $C_{27}H_{14}O_6$  \*1) Trisdiketodihydroinden (*B.* 34, 2148, 2152).
- $C_{27}H_{14}O_7$  C 72,0 — H 3,1 — O 24,9 — M. G. 450.

- $C_{27}H_{14}O_7$  1) Oxytrisdiketodihydroinden. Sm. 218—219°.  $K_2$ , Ba (*B.* 34, 2150).  
 $C_{27}H_{18}O$  \*1) Anhydrid d. Phenylidi[2-Oxy-1-Naphtyl]methan. Sm. 191° (*B.* 34, 204).  
 $C_{27}H_{18}O_6$  6) Tribenzoat d. 1,2,4-Trioxymethan. Sm. 120° (*B.* 34, 2837).  
 $C_{27}H_{20}O_2$  5) Phenylidi[2-Oxy-1-Naphtyl]methan. Sm. 198° (*B.* 34, 203). — \*II, 611.  
 6) Fluoren-9-Diphenylessigsäure (Diphenyldiphenylenpropionsäure). Sm. 239° u. Zers. Ag (*B.* 29, 738). — \*II, 880.  
 $C_{27}H_{20}O_4$  2) Dibenzoat d. 2,4'-Dioxydiphenylmethan. Sm. 108° (*J. pr.* [2] 65, 314 *C.* 1902 [1] 1350).  
 $C_{27}H_{20}O_6$  C 73,6 — H 4,5 — O 21,8 — M. G. 440.  
 1) Verbindung (aus Brenztraubensäure u. Benzaldehyd).  $3 + 4C_6H_5O$ , Na +  $C_2H_5O$  (*B.* 34, 820).  
 $C_{27}H_{22}O_7$  C 70,7 — H 4,8 — O 24,4 — M. G. 458.  
 1) Triacetat d. 4,5,7-Trioxo-2,4-Diphenyl-1,4-Benzpyran. Zers. oberh. 200° (*B.* 34, 3926 *C.* 1902 [1] 123).  
 2) Triacetat d. 4,7,8-Trioxo-2,4-Diphenyl-1,4-Benzpyran. Zers. oberh. 230° (*B.* 34, 3923 *C.* 1902 [1] 123).  
 $C_{27}H_{22}O_{14}$  \*1) Hexaacetat d. Myricetin. Sm. 211—212° (*Soc.* 81, 204 *C.* 1902 [1] 528).  
 2) Hexaacetat d. Quercetagenin. Sm. 203—205° (*C.* 1902 [1] 1060).  
 $C_{27}H_{22}N_2$  \*6)  $\gamma$ -Phenylhydrason- $\alpha\beta\gamma$ -Triphenylpropen. Sm. 163—164° (*B.* 34, 3902).  
 $C_{27}H_{24}O_2$  4) 1-Oxy-3-Keto-4-Propyl-1,5-Diphenyl-2-Benzyliden-2,3-Dihydro-R-Penten. Sm. 166° (*Soc.* 79, 1040).  
 $C_{27}H_{24}S_2$  1) Dibenzyläther d.  $\alpha\alpha$ -Dimerkaptodiphenylmethan. Sm. 144° (*B.* 35, 2345 *C.* 1902 [2] 516).  
 $C_{27}H_{28}O_3$  C 81,4 — H 6,5 — O 12,1 — M. G. 398.  
 1) Cinnamylidenanhydrobisdiketodihydroinden. Sm. 243° (*B.* 34, 3270).  
 $C_{27}H_{28}O_{16}$  \*1) Myricolorin +  $3H_2O$  (Osyritrin; Violaquereittrin). Sm. 180—185° (179°) (*Soc.* 71, 1132; 73, 698, 700; 75, 440; *J.* 1883, 1369; *C.* 1901 [1] 1168; 1902 [1] 877; *Soc.* 81, 477 *C.* 1902 [1] 1356). — III, 615.  
 $C_{27}H_{29}N_3$  C 82,0 — H 7,3 — N 10,6 — M. G. 395.  
 1)  $\alpha$ -[1-Naphtyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 182° (*B.* 35, 367 *C.* 1902 [1] 588).  
 2)  $\alpha$ -[2-Naphtyl]amidodi[4-Dimethylamidophenyl]methan. Sm. 191° (*B.* 35, 367 *C.* 1902 [1] 588).  
 $C_{27}H_{30}O_{15}$  \*1) Apin +  $H_2O$  (*G.* 31 [1] 73).  
 $C_{27}H_{30}S_3$  1) trim. Aldehyd d. 1,4-Dimethylbenzol-2-Thiocarbonsäure. Sm. 110° (*C.* 1901 [2] 772).  
 $C_{27}H_{32}O_6$  \*2) Butin (*C.* 1901 [2] 121).  
 $C_{27}H_{32}N_2$  C 84,4 — H 8,3 — N 7,3 — M. G. 384.  
 1)  $\alpha$ -Benzyliden- $\beta\beta$ -Di[2,4,5-Trimethylbenzyl]hydrazin. Sm. 119°. HCl (*B.* 34, 556).  
 $C_{27}H_{33}P$  1) Tri[2,4,5-Trimethylphenyl]phosphin. Sm. 216—217° (*A.* 315, 100).  
 2) Tri[2,4,6-Trimethylphenyl]phosphin. Sm. 205—206°. +  $HgCl_2$  (*A.* 315, 102).  
 $C_{27}H_{33}As$  1) Tri[4-Isopropylphenyl]arsin. Sm. 139—140°. +  $HgCl_2$  (*A.* 321, 235 *C.* 1902 [2] 49).  
 2) Tri[2,4,5-Trimethylphenyl]arsin. Sm. 223° (*A.* 321, 227 *C.* 1902 [2] 48).  
 3) Tri[2,4,6-Trimethylphenyl]arsin. Sm. 170° (*A.* 321, 238 *C.* 1902 [2] 49).  
 $C_{27}H_{34}O_3$  C 68,9 — H 7,2 — O 23,8 — M. G. 470.  
 1) Hexaäthyläther d. Myricetin. Sm. 149—151° (*Soc.* 81, 528 *C.* 1902 [1] 528).  
 $C_{27}H_{36}O_8$  \*1) Olivetorsäure. Sm. 141—142° (*A.* 321, 56 *C.* 1902 [1] 942).  
 $C_{27}H_{38}O_7$  4) Verbindung (aus Hopfen) (*C.* 1902 [2] 746).  
 $C_{27}H_{38}O_{18}$  C 49,9 — H 5,8 — O 44,3 — M. G. 650.  
 1) Heptaacetylmethylcellobiosid. Sm. 173° (*M.* 22, 1034 *C.* 1902 [1] 184).  
 2) Heptaacetylmethylaktosid. Sm. 65—66° (*B.* 35, 1952 *C.* 1902 [2] 110; *M.* 23, 868 *C.* 1902 [2] 1416).



- $C_{27}H_{38}O_{18}$  3) isom. Heptaacetat d. **Methylaktosid**. Sm. 76—77° (*M.* 23, 873 *C.* 1902 [2] 1416).
- 4) **Heptaacetat d.  $\beta$ -Methylmaltosid**. Sm. 128—129° (125—126°) (*B.* 34, 2895; *B.* 34, 4344 *C.* 1902 [1] 303; *B.* 35, 840 *C.* 1902 [1] 759; *M.* 23, 48 *C.* 1902 [1] 861).  
C 67,4 — H 9,2 — O 23,3 — M. G. 480.
- $C_{27}H_{44}O_7$  1) **Digitosäure**. Sm. 210°. Mg (*B.* 34, 3574).
- $C_{27}H_{40}O$  3) **Phytosterin** (*C.* 1901 [2] 1044). — \*II, 655.
- $C_{27}H_{40}O_{14}$  \*1) **Digitonin** (*C.* 1901 [1] 1103; *B.* 34, 3562).
- $C_{27}H_{34}O_2$  5) **Säure** (aus Pisangwachs). Sm. 63,5° (*R.* 20, 75).

## — 27 III —

- $C_{27}H_{18}O_2N_2$  C 81,0 — H 4,0 — O 8,0 — N 7,0 — M. G. 400.
- 1) **Benzoat d. 3-Oxyphenanthrenphenazin**. Sm. 234—236° (*A.* 322, 144 *C.* 1902 [2] 282).
- $C_{27}H_{17}OCl$  1) **Chlorid** (aus Benzyliden- $\beta$ -Dinaphthoxyd). +  $FeCl_3$  (*B.* 34, 3305).
- $C_{27}H_{17}OBr_3$  1) **Perbromid** (aus Benzyliden- $\beta$ -Dinaphthoxyd). Sm. 218—219° (*B.* 34, 3306).
- $C_{27}H_{17}O_3N$  \*3) **Anhydrid d. 4-Nitrophenylidi[2-Oxynaphtyl]methan**. Sm. 314° (*B.* 35, 318 *C.* 1902 [1] 592).
- $C_{27}H_{19}O_6Br$  1) **Verbindung** (aus d. Verb.  $C_{27}H_{20}O_6$ ). Sm. 196—197° (*B.* 34, 821).
- $C_{27}H_{20}N_6S$  1) **Thioharnstoff d. 2-[3-Amidophenyl]benzimidazol**. Sm. 263° (*B.* 34, 2962).
- 2) **Thioharnstoff d. 2-[4-Amidophenyl]benzimidazol**. Sm. 236—237° u. Zers. (*B.* 34, 2963).
- $C_{27}H_{21}O_3N_5$  C 70,0 — H 4,5 — O 10,4 — N 15,1 — M. G. 463.
- 1) **Aethylester d. 4-[2-Oxy-1-Naphtyl]azobiphenylen-4'-Hydrazoncyanessigsäure** (*J. pr.* [2] 63, 14).
- $C_{27}H_{22}ON_4$  2)  $\alpha$ -[Phenylimidophenylamidomethyl]- $\beta$ -[Phenylbenzoylmethylen]hydrazin. Sm. 163—164° (*B.* 35, 1720 *C.* 1902 [2] 31).
- $C_{27}H_{22}O_3N_2$  2) **Verbindung** (aus Desoxybenzoïn u. Benzyliden-m-Nitranilin). Sm. 208° (*Soc.* 81, 448 *C.* 1902 [1] 1012).
- $C_{27}H_{22}O_3N_4$  3) **Di[Phenylazo]katechin a**. Sm. 198—200° (*Soc.* 81, 1170 *C.* 1902 [2] 199, 702).
- 4) **Di[Phenylazo]katechin b**. Sm. 193—195° u. Zers. (*Soc.* 81, 1164 *C.* 1902 [2] 199, 702).
- 5) **Di[Phenylazo]katechin c**. Sm. 215—217° (*Soc.* 81, 1168 *C.* 1902 [2] 199).
- $C_{27}H_{23}O_6N$  2) **Monobenzoat d. Chelidonin**. Sm. 210—211° (*C.* 1901 [2] 783).
- $C_{27}H_{24}ON_2$  2) **Benzyläther d.  $\alpha$ -Benzylloxyamido- $\alpha$ -Phenylimido- $\alpha$ -Phenylmethan**. Sm. 99° (*B.* 34, 2628).
- $C_{27}H_{24}O_2N_2$  C 79,4 — H 5,9 — O 7,8 — N 6,9 — M. G. 408.
- 1) **4-Benzoyl-1-Naphtylhydrazon]-1-Keto-3-Methyl-6-Isopropyl-1,4-Dihydrobenzol**. Sm. 151,5° (*Am.* 25, 494).
- 2) **Benzoat d. 1-[4-Oxy-2-Methyl-5-Isopropylphenylazo]naphtalin**. Sm. 173,5° (*Am.* 25, 496).
- 3) **10-Acetylamido-12-Oxy-7,9-Dimethyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin**. Sm. 210° u. Zers. (*B.* 35, 324 *C.* 1902 [1] 593).
- 4) **Methylhydroxyd d. 10-Acetylamido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin**. Chlorid, (2 Chlorid +  $PtCl_4$ ), Biehromat (*B.* 35, 323 *C.* 1902 [1] 593).
- $C_{27}H_{24}O_2N_4$  4) **Di[ $\alpha\beta$ -Diphenylureido]methan** (*Soc.* 81, 283 *C.* 1902 [1] 527).
- $C_{27}H_{24}O_4S_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon]diphenylmethan. Sm. 204—208° (*B.* 35, 2346 *C.* 1902 [2] 516).
- $C_{27}H_{24}O_8N_2$  C 64,3 — H 4,8 — O 25,4 — N 5,5 — M. G. 504.
- 1) **Acetylderivat d. Verb.  $C_{25}H_{22}O_7N_2$** . Sm. 193—195° (*Ar.* 240, 541 *C.* 1902 [2] 1329).
- $C_{27}H_{24}N_2S_2$  1) **Verbindung** (aus 4'-Amido-4-Methylidisulfid) (*J. pr.* [2] 63, 181).
- $C_{27}H_{26}O_3P$  1) **Diphenylester d.  $\beta\beta$ -Diphenylisopropylphosphinsäure**. Sm. 120°. + 2 Molec. Phenol (*B.* 34, 1296).
- $C_{27}H_{25}ON_3$  C 79,6 — H 6,1 — O 3,9 — N 10,3 — M. G. 407.
- 1) **Farbstoff** (aus 4-Methylphenyl-1-Naphtylamin). Sm. 209,5° (*J. pr.* [2] 64, 514 *C.* 1902 [1] 258).

- $C_{27}H_{25}O_8N$  C 66,0 — H 5,1 — O 26,1 — N 2,8 — M. G. 491.  
 1) Phenylamid d. Cetrarsäuremethylester. Sm. 176—178° (*Ar.* 240, 538 *C.* 1902 [2] 1329).  
 2) 4-Methylphenylamid d. Cetrarsäure (*Ar.* 240, 535 *C.* 1902 [2] 1328).
- $C_{27}H_{25}Cl_2P$  1) 4-Chlorphenylidi[4-Methylphenyl]benzylphosphoniumchlorid. Sm. 257° (*A.* 315, 97).
- $C_{27}H_{26}O_2N_2$  2) Di[4-Methylphenylamidoxyphenyl]methan. Sm. 118°. 2HCl (*J. pr.* [2] 65, 77 *C.* 1902 [1] 580).
- $C_{27}H_{27}O_2N_5$  1) 1,2-Diacetyl-3,5-Di[4-Methylphenylimido]-4-[4-Methylphenyl]-tetrahydro-1,2,4-Triazol. Sm. 175° (*B.* 35, 1724 *C.* 1902 [2] 31).  
 C 66,3 — H 5,5 — O 19,6 — N 8,6 — M. G. 489.
- $C_{27}H_{27}O_6N_3$  1) 4-Nitrophenylester d. Chininkohlensäure. Sm. 187° (*C.* 1901 [1] 236).
- $C_{27}H_{28}O_3N_2$  \* 1) Benzoylchinin. Sm. 139° (*C.* 1901 [2] 865).
- $C_{27}H_{28}O_4N_2$  2) 1,4,5,6-Tetraoxy-2- oder 3-Di[4-Dimethylamidophenyl]methyl-naphtalin (*B.* 32, 2153). — \*II, 633.  
 3) Phenylester d. Chininkohlensäure. Sm. 129° (*C.* 1901 [1] 236).  
 4) Salicylat d. Chinin (Salochinin; Salicylchinin). Sm. 130° (140°) (*C.* 1901 [2] 865; D.R.P. 129452 *C.* 1902 [1] 790; D.R.P. 128116 *C.* 1902 [1] 548).  
 5) Salicylat d. Chinidin. Sm. 168°. Salicyls. Salz (D.R.P. 129452 *C.* 1902 [1] 790; D.R.P. 128116 *C.* 1902 [1] 548).
- $C_{27}H_{28}O_5N_2$  1) 2-Oxyphenylester d. Chininkohlensäure. Sm. 184—185°.  $H_2SO_4$  (*C.* 1901 [1] 236).
- $C_{27}H_{28}O_7N_2$  2)  $\alpha^2, \alpha^4, \alpha^6, \gamma^4$ -Tetramethyläther- $\gamma^1$ -Äthyläther d.  $\beta$ -Phenylhydrazon- $\alpha\gamma$ -Diketo- $\gamma$ -[3,4-Dioxyphenyl]- $\alpha$ -[2,4,6-Trioxyphenyl]propan. Sm. 166—167° (*B.* 35, 1682 *C.* 1902 [1] 1366).
- $C_{27}H_{32}O_4N_2$  2) Diäthylester d.  $\alpha$ -Phenyl- $\gamma\gamma$ -Di[2,5-Dimethyl-3-Pyrryl]propen-4,4'-Dicarbonsäure. Sm. 243° (*B.* 35, 1652 *C.* 1902 [1] 1357).
- $C_{27}H_{32}O_8N_4$  1) Tetraäthylester d. 5-Methyl-1,4,7,10-Naphisotetrazin-2,3,8,9-Tetra[Methylcarbonsäure]. Sm. 153° (*Bl.* [3] 25, 724).  
 C 83,7 — H 8,5 — O 4,1 — N 3,6 — M. G. 387.
- $C_{27}H_{33}ON$  1) 2,4-Dibutyl-3-[4-Methylphenyl]-3,4-Dihydro-1,3- $\alpha$ -Naptisoxazin. Sm. 191° (*G.* 31 [2] 214).
- $C_{27}H_{33}OP$  1) Tri[2,4,5-Trimethylphenyl]phosphinoxyd. Sm. 222° (*A.* 315, 101).
- $C_{27}H_{33}OAs$  1) Tri[4-Isopropylphenyl]arsinoxyd. Sm. 129° (*A.* 321, 236 *C.* 1902 [2] 49).  
 2) Tri[2,4,5-Trimethylphenyl]arsinoxyd. Sm. 227—228° (*A.* 321, 229 *C.* 1902 [2] 48).  
 3) Tri[2,4,6-Trimethylphenyl]arsinoxyd. Sm. 203—204° (*A.* 321, 240 *C.* 1902 [2] 49).
- $C_{27}H_{33}Cl_2As$  1) Tri[4-Isopropylphenyl]arsindichlorid. Sm. 276°. 2 +  $PtCl_4$  (*A.* 321, 236 *C.* 1902 [2] 49).
- $C_{27}H_{33}Br_2P$  1) Tri[2,4,5-Trimethylphenyl]phosphindibromid (*A.* 315, 101).
- $C_{27}H_{33}Br_2As$  1) Tri[4-Isopropylphenyl]arsindibromid. Sm. 142° (*A.* 321, 236 *C.* 1902 [2] 49).  
 2) Tri[2,4,5-Trimethylphenyl]arsindibromid. Sm. 224—225° (*A.* 321, 228 *C.* 1902 [2] 48).  
 3) Tri[2,4,6-Trimethylphenyl]arsindibromid. Sm. 237° (*A.* 321, 239 *C.* 1902 [2] 49).
- $C_{27}H_{33}SAs$  1) Tri[4-Isopropylphenyl]arsinsulfid. Sm. 149,5° (*A.* 321, 237 *C.* 1902 [2] 49).  
 C 77,7 — H 8,4 — O 3,8 — N 10,1 — M. G. 417.
- $C_{27}H_{35}ON_3$  1) Äthyläther d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan. Sm. 143° (143—145°) (*Bl.* [3] 13, 564; *M.* 22, 609; *C.* 1902 [1] 471). — \*II, 667.
- $C_{27}H_{35}O_3As$  1) Tri[4-Isopropylphenyl]oxyarsoniumhydroxyd. Nitrat (*A.* 321, 237 *C.* 1902 [2] 49).  
 2) Tri[2,4,5-Trimethylphenyl]oxyarsoniumhydroxyd + 4 $H_2O$  (*A.* 321, 228 *C.* 1902 [2] 48).
- $C_{27}H_{35}O_5S_2$  1)  $\alpha\epsilon$ -Di[Amylsulfon]- $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 155° (*B.* 35, 813 *C.* 1902 [1] 756).

- $C_{27}H_{44}O_8N_2$  C 73,0 — H 9,9 — O 10,8 — N 6,3 — M. G. 444.  
 1) Aethyläther d. 2,4-Diketo-3-Hexadekyl-1-[4-Oxyphenyl]tetrahydroimidazol. Sm. 100—101° (*J. pr.* [2] 66, 247 *C.* 1902 [2] 1123).  
 $C_{27}H_{45}O_8N$  C 70,0 — H 9,7 — O 17,3 — N 3,0 — M. G. 463.  
 1) Glykcholeinsäure (oder  $C_{26}H_{43}O_5N$ ). Sm. 175—176° (*H.* 36, 563 *C.* 1902 [2] 1421).  
 $C_{27}H_{45}O_7N$  C 65,4' — H 9,1 — O 22,6 — N 2,8 — M. G. 495.  
 1) Oxim d. Digitosäure. Sm. 244° (*B.* 34, 3570).

## — 27 IV —

- $C_{27}H_{21}O_2N_4Cl$  1) 3-Chlor-4,6-Di[Benzoylamido]-2-Methylazobenzol. Sm. 233° (*Soc.* 81, 98 *C.* 1902 [1] 186).  
 2) 5-Chlor-2,6-Di[Benzoylamido]-3-Methylazobenzol. Sm. 236 bis 237° (*Soc.* 81, 96 *C.* 1902 [1] 186, 416).  
 $C_{27}H_{21}O_2N_4Br$  1) 4'-Brom-4,6-Di[Benzoylamido]-3-Methylazobenzol. Sm. oberh. 250° (*Soc.* 81, 1384 *C.* 1902 [2] 1190).  
 $C_{27}H_{21}O_3N_3S_2$  1)  $\alpha$ -Phenylimido- $\alpha\alpha$ -[8-Oxy-2-Naphtylamido]methan-7,7'-Disulfonsäure (D. R. P. 129417 *C.* 1902 [1] 789).  
 2)  $\alpha$ -Phenylimido- $\alpha\alpha$ -Di[5-Oxy-2-Naphtylamido]methan-7,7'-Disulfonsäure (D. R. P. 129417 *C.* 1902 [1] 789).  
 $C_{27}H_{23}ON_2Cl$  1) Chlormethylat d. 10-Acetylamido-9-Methyl-12-Phenyl- $\alpha$ -Phenakridin. 2 +  $PtCl_4$  (*B.* 35, 323 *C.* 1902 [1] 593).  
 $C_{27}H_{23}O_8N_2S_2$  1)  $\alpha\alpha$ -Di[Benzylsulfon- $\alpha$ -Phenyl- $\alpha$ -[3-Nitrophenyl]methan. Sm. 184 bis 186° (*B.* 35, 2351 *C.* 1902 [2] 517).  
 2)  $\alpha\alpha$ -Di[Benzylsulfon- $\alpha$ -Phenyl- $\alpha$ -[4-Nitrophenyl]methan. Sm. 204° (*B.* 35, 2351 *C.* 1902 [2] 517).  
 $C_{27}H_{24}ON_2S$  1) Verbindung (aus Phenylbenzenyl-p-Tolylamidin u. Benzolthiocarbon-säure). Sm. 131° (*C.* 1901 [2] 629).  
 $C_{27}H_{27}ON_2P$  1) Di[Phenylamid] d.  $\beta\beta'$ -Diphenylisopropylphosphinsäure. Sm. 196° (*B.* 34, 1295).  
 $C_{27}H_{29}ON_4P$  1) Di[Phenylhydrazid] d.  $\beta\beta'$ -Diphenylisopropylphosphinsäure. Sm. 164° (*B.* 34, 1295).  
 $C_{27}H_{30}O_3N_3As$  1) Tri[P-Acetylamido-4-Methylphenyl]arsin. Sm. 228° (*A.* 321, 214 *C.* 1902 [2] 47).  
 $C_{27}H_{30}O_7N_3As$  1) Tri[P-Nitro-4-Isopropylphenyl]arsinoxid. Sm. 245° u. Zers. (*A.* 321, 237 *C.* 1902 [2] 49).  
 $C_{27}H_{38}O_4N_4Cl$  1) 4-Chlor-1,3-Dinitrobenzol + Di[4-Diäthylamidophenyl]methan. Sm. 42,5° (*C. r.* 135, 347 *C.* 1902 [2] 798).  
 $C_{27}H_{34}OClAs$  1) Tri[2,4,6-Trimethylphenyl]arsinoxychlorid. Sm. 100° (*A.* 321, 238 *C.* 1902 [2] 49).  
 $C_{27}H_{34}OBrAs$  1) Tri[2,4,6-Trimethylphenyl]arsinoxybromid. Sm. 108° (*A.* 321, 228 *C.* 1902 [2] 48).  
 $C_{27}H_{36}O_2N_2P$  1) Di[4-Aethoxyphenylamid] d. Phosphinsäure  $C_{11}H_{17}O_4P$ . Sm. 137° (*B.* 34, 1299).

 $C_{28}$ -Gruppe.

- $C_{28}H_{22}$  2) 9,10-Dibenzylanthracen. Sm. 239—240° (*M.* 23, 672 *C.* 1902 [2] 745).  
 $C_{28}H_{54}$  C 86,1 — H 13,9 — M. G. 390.  
 1) Kohlenwasserstoff (aus Petroleum). Sd. 310—312°<sub>50</sub> (*Am.* 28, 195 *C.* 1902 [2] 1082).  
 $C_{28}H_{58}$  \*1) Oktakosan. Sm. 60°; Sd. 310—312°<sub>50</sub> (*Am.* 28, 195 *C.* 1902 [2] 1082).

## — 28 II —

- $C_{28}H_{16}N_2$  \*1) Diphenanthrenazotid (Phenanthrazin). Sm. 440—441° (487°) (*B.* 34, 537; *B.* 35, 2739 *C.* 1902 [2] 645).  
 $C_{28}H_{18}O_2$  2) Dianthranol (Dianthron). Sm. 246—251° (230—235°) (*Am.* 18, 455; *B.* 34, 222). — \*II, 541.  
 $C_{28}H_{18}O_5$  \*1) Anhydrid d. 2-Benzoylbenzol-1-Carbonsäure. Sm. 140° (*Bl.* [3] 25, 55).

- $C_{23}H_{18}N_2$  2) Verbindung (aus 1,5-Di-p-Tolylamido-9,10-Anthrachinon) (D.R.P. 126444 C. 1902 [1] 79).
- $C_{23}H_{18}N_4$  C 81,9 — H 4,4 — N 13,6 — M. G. 410.
- 1) 4,4'-Di[ $\alpha$ -Cyanbenzylidenamido]biphenyl. Sm. 252° (B. 35, 3348 C. 1902 [2] 1195).
- $C_{23}H_{20}O_1$  \*6) Benzilid. Sm. 196° (B. 35, 3642 C. 1902 [2] 1455).
- $C_{23}H_{20}O_7$  2) Dibenzooat d. Jacarandin. Sm. 167—169° (Soc. 81, 219 C. 1902 [1] 532).
- $C_{23}H_{20}O_{11}$  \*1) Tetraacetat d. Gallein. Sm. 241° (Am. 26, 119).
- 2) Tetraacetat d. Dioxylfluorescein. Sm. 264° u. Zers. (B. 34, 2300, 2618, 2641).
- 3) Verbindung (aus Rubidinsäure) (J. pr. [2] 63, 538).
- $C_{23}H_{21}Br$  1) 9-[ $\alpha$ -Brombenzyl]-10-Benzylanthracen. Sm. 187° u. Zers. (M. 23, 675 C. 1902 [2] 745).
- $C_{23}H_{22}O$  7) 9-[ $\alpha$ -Oxybenzyl]-10-Benzylanthracen. Sm. 225—226° (M. 23, 676 C. 1902 [2] 745).
- $C_{23}H_{22}O_4$  6) Dibenzooat d. 4,4'-Dioxy-2,2'-Dimethylbiphenyl. Sm. 127° (C. 1902 [2] 1448).
- $C_{23}H_{22}O_{10}$  2) Triacetat d. Dioxylfluoresceinäthyläther. Sm. 238—239° (B. 34, 2640).
- $C_{23}H_{22}O_{11}$  \*3) Tetraacetat d. Gallin. Ag (Am. 26, 130).
- $C_{23}H_{22}O_{14}$  2) Bryopogonsäure. Zers. bei 260° (J. pr. [2] 63, 530).
- 3) Isobryopogonsäure (J. pr. [2] 63, 531).
- $C_{23}H_{22}N_2$  5) Verbindung (aus Benzil u. 2,2'-Diamido-4,4'-Dimethylbiphenyl). Sm. 242° (B. 34, 3334).
- $C_{23}H_{22}N_4$  4) 4,4'-Di[ $\alpha$ -Cyanbenzylamido]biphenyl. Sm. 201—202° (B. 35, 3347 C. 1902 [2] 1194).
- 5) 4-Phenylazo-1,3-Diphenyl-5-Benzylpyrazol. Sm. 150° (B. 34, 1486).
- $C_{23}H_{24}O_{12}$  2) Rubidinsäure. K<sub>1</sub> (J. pr. [2] 63, 537).
- $C_{23}H_{24}N_2$  1) 1,4-Di[1-Naphthylamidomethyl]benzol. Sm. 165° (B. 34, 2084).
- $C_{23}H_{24}S_2$  1) Dibenzyläther d.  $\alpha\beta$ -Dimerkapto- $\alpha\beta$ -Diphenyläthen. Sm. 174—175° (B. 35, 508 C. 1902 [1] 660).
- $C_{23}H_{28}O_2$  \*2)  $\alpha$ -Desoxybenzoïnpinakon. Sm. 212° (B. 35, 1561 C. 1902 [1] 1229).
- $C_{23}H_{28}N_2$  2,3,5,6-Tetraphenylhexahydro-1,4-Diazin (Tetraphenylpiperazin). Fl. 2HCl, (2HCl, PtCl<sub>4</sub>), Pikrat (B. 34, 628, 3542; D.R.P. 126798 C. 1902 [1] 81).
- 5) 9-Diäthylamido-10-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 200 bis 201°. HBr (B. 35, 336 C. 1902 [1] 595).
- $C_{23}H_{29}N_4$  7) Base (aus d. Base  $C_{23}H_{28}N_4$ ). + PtCl<sub>2</sub> (G. 30 [2] 115). — \*II, 233.
- $C_{23}H_{27}N_3$  2) 5-[4-Methylphenyl]amido-1,4-Di[4-Methylphenylimido]-2-Methyl-1,4-Dihydrobenzol. Sm. 183°. (2HCl, PtCl<sub>4</sub>) (J. r. 13, 450; Soc. 37, 546; B. 34, 1282).
- $C_{23}H_{28}O_7$  C 70,6 — H 5,9 — O 23,5 — M. G. 476.
- 1) Tetraäthyläther d. Gallein. Sm. 155° (Am. 26, 139).
- 2) isom. Tetraäthyläther d. Gallein. Sm. 144° (Am. 26, 140).
- $C_{23}H_{28}N_2$  7) 9-Diäthylamido-10-Methyl-12-Phenyl-7,12-Dihydro- $\alpha$ -Phenakridin. Sm. 186° (B. 35, 336 C. 1902 [1] 594).
- $C_{23}H_{28}N_4$  \*1) p-Benzylidenimid. Sm. 110—115° (D.R.P. 128726 C. 1902 [1] 612).
- 6) Tetrabenzyltetrazon. Sm. 97° (B. 34, 558).
- $C_{23}H_{30}O_8$  C 68,0 — H 6,1 — O 25,9 — M. G. 494.
- 1) Diäthylester d. 3,5-Dibenzoxyl-1,3-Dimethyl-1,2,3,4-Tetrahydrobenzol-2,6-Dicarbonsäure. Sd. 175—185° (A. 323, 101 C. 1902 [2] 784).
- $C_{23}H_{32}O_{10}$  2) Diacetylflavaspidsäure. Sm. 142—143° (A. 318, 281).
- $C_{23}H_{32}O_{15}$  \*1) Monomethyläther d. Apiin (oder  $C_{23}H_{30}O_{15}$ ) (A. 318, 136).
- $C_{23}H_{32}O_{18}$  C 51,2 — H 4,9 — O 43,9 — M. G. 656.
- 1) Lotunsäure (C. 1901 [2] 594).
- $C_{23}H_{34}O_8$  C 67,5 — H 6,8 — O 25,7 — M. G. 498.
- 1) Aethyl-sec. Oktylester d. d-Dibenzoylweinsäure (Soc. 79, 1106).
- $C_{23}H_{35}O_{19}$  \*3) Oktacetylmaltose. Sm. 156—157° (B. 34, 4344 C. 1902 [1] 302).
- \*5) Oktacetylmilchzucker. Sm. 86° (106°; 99°) (M. 23, 6 C. 1902 [1] 803; B. 35, 841 C. 1902 [1] 759; M. 23, 874 C. 1902 [2] 1416).
- \*6) Oktacetylrohrzucker. Sm. 67° (B. 34, 4347 C. 1902 [1] 303).
- 8) Oktacetylcellobiose. Sm. 227—228° (M. 22, 1015 C. 1902 [1] 183).
- $C_{23}H_{40}O_{18}$  C 50,6 — H 6,0 — O 43,4 — M. G. 664.

- $C_{28}H_{40}O_{13}$  1) Aethylheptacetylmaltoaid. Sm. 121—123° (*M.* 23, 49 *C.* 1902 [1] 861).  
 $C_{28}H_{44}O_8$  \*1)  $\beta$ -Digitogensäure +  $3H_2O$ . Sm. 95° (oberh. 140° wasserfrei) (*B.* 34, 3572).
- $C_{28}H_{47}O_{14}$  1) Digitonin +  $H_2O$ ? (*C.* 1901 [1] 1103).  
 $C_{28}H_{50}O_4$  C 74,7 — H 11,1 — O 14,2 — *M. G.* 450.
- 1) 1-Dimethylster d. Hexan- $\alpha$ -Dicarbonsäure (*C.* 1902 [2] 1238).  
 $C_{28}H_{58}O$  C 82,0 — H 14,1 — O 3,9 — *M. G.* 410.
- 1) 9-[ $\beta$ -Oxyäthyl]-9,10-Dibutyloktadekan (Tetraönanthylalkohol). Sd. 295 bis 300°<sub>13</sub> (*C.* 1902 [2] 886).
- 28 III —
- $C_{28}H_{16}O_8N_2$  C 66,1 — H 3,1 — O 25,2 — N 5,5 — *M. G.* 508.
- 1) Dibenzoat d. *p*-Dinitro-9,10-Dioxypheanthren. Sm. 210° (*B.* 35, 3128 *C.* 1902 [2] 1213).
- $C_{28}H_{17}ON$  \*1) Phenanthroxazin. Sm. 350—355° (oberh. 360°) (*B.* 34, 535, 806).  
 $C_{28}H_{17}O_6N$  C 72,6 — H 3,7 — O 20,7 — N 3,0 — *M. G.* 463.
- 1) Dibenzoylderivat d. 3-Amido-1,2-Dioxy-9,10-Anthrachinon. Sm. 252° (*B.* 35, 908 *C.* 1902 [1] 815).  
 2) Dibenzoylderivat d. 4-Amido-1,2-Dioxy-9,10-Anthrachinon. Sm. 255° (*B.* 35, 908 *C.* 1902 [1] 815).
- $C_{28}H_{18}O_2S_2$  1) Laktone d. 1-Dimerkaptooxymethylbenzoldi[2-Naphtyläther]-2-Carbonsäure (Dithio- $\beta$ -Naphtolphtalid). Sm. 153—154° (*J. pr.* [2] 66, 352 *C.* 1902 [2] 1302).
- $C_{28}H_{18}O_9N_3$  C 55,1 — H 2,9 — O 23,6 — N 18,4 — *M. G.* 610.
- 1) Naphtocynaminsäure.  $K + H_2O$ , Ba, Ag (*A.* 141, 214; *B.* 27, 3465). — *II*, 196; \**II*, 99.
- $C_{28}H_{18}N_4S_3$  1) Verbindung (aus Dehydro-*p*-Toluidin). Zers. bei 230—250° (*D. R. P.* 61 204). — \**II*, 483.
- $C_{28}H_{19}ON_3$  \*1) Diphenanthrenoxytriimid (*B.* 34, 537).  
 $C_{28}H_{19}O_2N$  2) Di[10-Oxy-9-Phenanthryl]amin. Sm. 168—170° u. Zers. (*B.* 35, 3131 *C.* 1902 [2] 1213).
- $C_{28}H_{19}O_7Br$  1) Verbindung (aus 5-Brom-1,3,6-Trioxypentanthren) (*B.* 34, 1546).  
 $C_{28}H_{19}N_3Cl_2$  1) 7-Chlorphenylat d. 9-Chlor-5-Phenylamido- $\alpha$ - $\beta$ -Naphtophenazin (*B.* 34, 1091; 35, 4819).
- $C_{28}H_{19}N_3S$  1) 2,3-Di[Phenylamido]- $\beta$ -Naphtophenazthioniumhydroxyd. Sm. 229° (*A.* 322, 49 *C.* 1902 [2] 223).
- $C_{28}H_{20}ON_2$  2) Amidotolu-2-Oxynaphtylakridin. Sm. 220° (*D. R. P.* 127 586 *C.* 1902 [1] 340).
- 3) Verbindung (aus 1,4-Di-*p*-Tolylamido-9,10-Anthrachinon) (*D. R. P.* 126 444 *C.* 1902 [1] 79).
- $C_{28}H_{20}O_2N_4$  2) 3,6-Diketo-1,2,4,5-Di[Diphenylmethylen]hexahydro-1,2,4,5-Tetrazin (Dibenzophenon *p*-Urazin). Sm. 164° (*G.* 31 [2] 560 *C.* 1902 [1] 481).
- $C_{28}H_{20}N_4Cl_2$  1) 4,4'-Di[ $\alpha$ -Cyan-4-Chlorbenzylamido]biphenyl. Sm. 237° (*J. pr.* [2] 65, 278 *C.* 1902 [1] 1215).
- $C_{28}H_{20}N_6S$  1) Sulfid d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 198° (*Am.* 27, 264 *C.* 1902 [1] 1299).
- $C_{28}H_{20}N_6S_2$  1) Disulfid d. 3-Merkapto-1,5-Diphenyl-1,2,4-Triazol. Sm. 174° (*Am.* 27, 265 *C.* 1902 [1] 1299).
- $C_{28}H_{20}N_6S_4$  1) Disulfid d. 3-Merkapto-5-Thiocarbonyl-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 147—148° (*B.* 34, 311).
- $C_{28}H_{22}O_6N_4$  3) 4,4'-Di[Phenylazo]biphenyl-4,4'-Di[Oxyessigsäure]. Sm. 255°.  $Na_2$  (*B.* 34, 3940 *C.* 1902 [1] 118).
- $C_{28}H_{22}N_2S$  1)  $\alpha$ -Phenyl- $\beta$ -Di[1-Naphtyl]methylthioharnstoff. Sm. 225—226° (*C.* 1902 [2] 790).
- 2)  $\alpha$ -[2-Naphtyl]- $\beta$ -[Phenyl-1-Naphtylmethyl]thioharnstoff. Sm. 195° (*C.* 1902 [2] 790).
- $C_{28}H_{22}N_8S_2$  1) Disulfid d. 5-Phenylimido-3-Merkapto-4-Phenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 209—210° (*B.* 35, 1713 *C.* 1902 [2] 29).
- $C_{28}H_{23}O_2N_3$  3) *p*-Dimethylamido-1,5-Di[Phenylamido]-9,10-Anthrachinon (*D. R. P.* 136 778 *C.* 1902 [2] 1376).



- $C_{28}H_{28}O_2N_8$  C 72,9 — H 5,0 — O 6,9 — N 15,2 — M. G. 461.  
 1)  $\alpha$ -Dibenzoyldiphenylbiguanid. Sm. 162° (B. 34, 2599).
- $C_{28}H_{24}ON_4$  \*6) 4,4'-Di[2-Methylphenylimidomethyl]azoxybenzol. Sm. 182—183° (B. 35, 2437 C. 1902 [2] 446).  
 \*7) 4,4'-Di[4-Methylphenylimidomethyl]azoxybenzol. Sm. 188—190° (B. 35, 2437 C. 1902 [2] 446).  
 9) 4,4'-Di[3-Methylphenylimidomethyl]azoxybenzol. Sm. 133° (B. 35, 2437 C. 1902 [2] 446).
- $C_{28}H_{24}OS_2$  1) Dibenzyläther d.  $\beta\beta$ -Dimerkapto- $\alpha$ -Keto- $\alpha\beta$ -Diphenyläthan. Sm. 101—103° (B. 35, 500 C. 1902 [1] 637).
- $C_{28}H_{24}O_2N_2$  \*5) 4,4'-Di[Benzoylamido]-3,3'-Dimethylbiphenyl. Sm. 265° (B. 35, 1974 C. 1902 [2] 112).  
 14) 4,4'-Di[Benzoylamido]-3,3'-Diphenylbiphenyl. Sm. 245—246° (J. pr. [2] 63, 462).  
 15) 2,2'-Di[Benzoylamido]-4,4'-Dimethylbiphenyl. Sm. 170° (B. 34, 3333).  
 16) 1,4-Di[4-Methylphenylamido]-9,10-Dioxyanthracen (D. R. P. 91152, 92591, 94396). — \*II, 607.
- $C_{28}H_{24}O_2N_6$  C 70,6 — H 5,0 — O 6,7 — N 17,6 — M. G. 476.  
 1) 4-Succinylamidoazobenzol. Sm. 221—222° (B. 35, 1432 C. 1902 [1] 1161).
- $C_{28}H_{24}O_3N_2$  4) Dibenzoylderivat d. 4-Dimethylamido-3'-Oxydiphenylamin. Sm. 112° (B. 35, 3087 C. 1902 [2] 1116).  
 5) Dibenzoylderivat d. 4-Dimethylamido-4'-Oxydiphenylamin. Sm. 210° (B. 35, 3086 C. 1902 [2] 1116).  
 6)  $\alpha$ -Verbindung (aus Dibenzylketon u. Benzyliden-m-Nitranilin). Sm. 134—135°. HCl (Soc. 81, 447 C. 1902 [1] 1012).  
 7)  $\beta$ -Verbindung (aus Dibenzylketon u. Benzyliden-m-Nitranilin). Sm. 177—178° (Soc. 81, 447 C. 1902 [1] 1012).  
 8)  $\gamma$ -Verbindung (aus Dibenzylketon u. Benzyliden-m-Nitranilin). Sm. 182—183° (Soc. 81, 448 C. 1902 [1] 1012).  
 9)  $\alpha$ -Verbindung (aus Dibenzylketon u. m-Nitrobenzylidenanilin). Sm. 147°. HCl (Soc. 81, 445 C. 1902 [1] 1012).  
 10)  $\beta$ -Verbindung (aus Dibenzylketon u. m-Nitrobenzylidenanilin). Sm. 178—179°. HCl (Soc. 81, 446 C. 1902 [1] 1012).  
 11)  $\gamma$ -Verbindung (aus Dibenzylketon u. m-Nitrobenzylidenanilin). Sm. 179—180° (Soc. 81, 446 C. 1902 [1] 1012).
- $C_{28}H_{24}O_5N_6$  C 58,7 — H 4,2 — O 22,4 — N 14,7 — M. G. 572.  
 1) 3,3'-Dimethyläther d.  $\alpha\beta$ -Di[4-Nitrophenylhydrazon]- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 247° (A. 324, 323 C. 1902 [2] 1505).
- $C_{28}H_{26}ON$  4)  $\alpha$ -Verbindung (aus Desoxybenzoin u. Benzyliden-p-Toluidin). Sm. 147° (Soc. 81, 445 C. 1902 [1] 1012).  
 5)  $\beta$ -Verbindung (aus Desoxybenzoin u. Benzyliden-p-Toluidin). Sm. 191° (Soc. 81, 445 C. 1902 [1] 1012).
- $C_{28}H_{26}O_2N_3$  4) Di[Diphenylamid] d. Imidodiessigsäure. Sm. oberh. 240° u. Zers. (D. R. P. 59121). — \*II, 175.
- $C_{28}H_{26}O_3N$  2) Acetat d. 2-Oxy-1-[ $\alpha$ -Benzylacetylamido]benzylnaphtalin. Sm. 166° (G. 31 [2] 178).
- $C_{28}H_{26}O_2N_4$  9)  $\alpha\beta$ -Di[ $\alpha\beta$ -Diphenylureido]äthan. Sm. 220° (Soc. 79, 259).  
 10)  $\alpha\beta$ -Di[4-Methylphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 266° (A. 324, 325 C. 1902 [2] 1505).  
 11) isom.  $\alpha\beta$ -Di[4-Methylphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 243° (A. 324, 325 C. 1902 [2] 1505).
- $C_{28}H_{26}O_4N_4$  4) 3,3'-Dimethyläther d. isom.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 155° (A. 321, 23 C. 1902 [1] 928).
- $C_{28}H_{26}O_6S_2$  2)  $\alpha\gamma\gamma$ -Tri[Phenylsulfon]- $\alpha$ -Phenylbutan. Sm. 168° (B. 35, 807 C. 1902 [1] 755).
- $C_{28}H_{26}N_4Se$  1) Di[ $\beta$ -Phenylhydrazon- $\beta$ -Phenyläthyl]selenid (Phenylhydrazon d. Selenoacetophenon). Sm. 70—100° (A. 314, 283).
- $C_{28}H_{28}OBr_2$  1) Anhydrid d. Di[4-Methylphenyl]borsäure. Sm. 78° (A. 315, 39).
- $C_{28}H_{28}ClAs$  2) Benzyltri[3-Methylphenyl]arsoniumchlorid. Sm. 102° (A. 321, 220 C. 1902 [2] 48).
- $C_{28}H_{30}O_4N_2$  C 73,4 — H 6,5 — O 14,0 — N 6,1 — M. G. 458.  
 1) Benzylcarbonat d. Chinin. Sm. 110° (C. 1901 [1] 652; 1901 [2] 865).

- $C_{28}H_{30}O_4N_2$  2) 4-Methoxybenzoat d. Chinin (Anisylchinin). Sm. 87—88° (C. 1901 [2] 865; D. R. P. 131 723 C. 1902 [1] 1428).
- $C_{28}H_{30}O_3Cl_2$  2) Tetramethylester d. 1,3-Diphenyl-R-Tetramethylen-2,4-Di[ $\alpha$ - oder  $\beta$ -Chloräthyl- $\beta$ -Dicarbonsäure]. Sm. 197—198° (Am. 28, 236 C. 1902 [2] 1047).  
C 57,7 — H 5,2 — O 27,5 — N 9,6 — M. G. 582.
- $C_{28}H_{30}O_4N_4$  1) 4,4'-Biphenyldihydrazon d. Oxalessigsäurediäthylester. Sm. 130 bis 133° (Bl. [3] 27, 983 C. 1902 [2] 1174).  
C 52,7 — H 4,9 — O 40,2 — N 2,2 — M. G. 637.
- $C_{28}H_{31}O_{16}N$  1) Lotusin (C. 1901 [2] 593).
- $C_{28}H_{34}O_3N_4$  \*1) Tetraäthylester d. 3,3'-Dimethylbiphenylen-4,4'-Di[Hydrazonmalonsäure]. Sm. 188—190° (Bl. [3] 27, 319 C. 1902 [1] 1205).
- $C_{28}H_{34}O_{10}N_4$  \*1) Tetraäthylester d. 3,3'-Dimethoxybiphenylen-4,4'-Di[Hydrazonmalonsäure]. Sm. 190—192° (Bl. [3] 27, 322 C. 1902 [1] 1205).  
C 64,0 — H 6,7 — O 21,3 — N 8,0 — M. G. 525.
- $C_{28}H_{35}O_7N_3$  1) Hexamethyläther d. Hexaoxydimethylformylleukanilin. Sm. 187° (B. 34, 1037).
- $C_{28}H_{36}ClAs$  1) Methyltri[2,4,6-Trimethylphenyl]arsoniumchlorid. Sm. 192°.  
2 +  $PtCl_4$  (A. 321, 240 C. 1902 [2] 49).
- $C_{28}H_{36}JP$  1) Methyltri[2,4,6-Trimethylphenyl]phosphoniumjodid. Sm. 269° (A. 315, 103).
- $C_{28}H_{36}JAs$  1) Methyltri[4-Isopropylphenyl]arsoniumjodid. Sm. 103° (A. 321, 237 C. 1902 [2] 49).  
2) Methyltri[2,4,6-Trimethylphenyl]arsoniumjodid. Sm. 186° (A. 321, 240 C. 1902 [2] 49).  
C 71,8 — H 8,5 — O 13,7 — N 6,0 — M. G. 468.
- $C_{28}H_{40}O_4N_2$  1) Cephaëlin. Sm. 120° (C. 1895 [1] 802; Ar. 240, 394 C. 1902 [2] 967).
- $C_{28}H_{45}O_3N$  2)  $\alpha$ -Oxim d. Digitogensäure. Sm. 175° (B. 34, 3569).  
3)  $\beta$ -Oxim d. Digitogensäure. Sm. 105° (B. 34, 3570).

- $C_{28}H_{16}ONCl$  1) Phenanthrazoxoniumchlorid +  $3H_2O$  (A. 322, 33 C. 1902 [2] 222).
- $C_{28}H_{16}ONBr_3$  1) Phenanthrazoxoniumtribromid (B. 34, 1625; A. 322, 31 C. 1902 [2] 222).
- $C_{28}H_{20}O_3N_6S_2$  1) Disulfid d. 3-Merkapto-5-Keto-1,4-Diphenyl-4,5-Dihydro-1,2,4-Triazol. Sm. 227° (B. 34, 310).
- $C_{28}H_{22}O_3N_2Cl_2$  1)  $\alpha\beta$ -Dibenzoyl- $\alpha\beta$ -Di[2-Chlorbenzyl]hydrazin. Sm. 118° (B. 34, 850).
- $C_{28}H_{22}O_3Cl_2Se$  1) Di[4-Phenylbenzoylmethyl]selenidchlorid (Dichlorselenoacetylbi-phenyl). Sm. 136° (A. 314, 294).
- $C_{28}H_{23}O_3N_3S_2$  1)  $\alpha$ -[4-Methylphenyl]imido- $\alpha$ -[7-Sulfo-5-Oxy-2-Naphtylamido]- $\alpha$ -[7-Sulfo-8-Oxy-2-Naphtylamido]methan (D. R. P. 129 418 C. 1902 [1] 790).
- $C_{28}H_{24}O_4N_4Br_2$  1) 3,3'-Dimethyläther d.  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[3,4-Dioxyphenyl]äthan. Sm. 165° u. Zers. (A. 324, 320 C. 1902 [2] 1505).
- $C_{28}H_{28}OS_2P_2$  1) Anhydrid d. Di[4-Methylphenyl]thiophosphinsäure. Sm. 165 bis 166° (A. 315, 66).
- $C_{28}H_{32}N_4ClP$  1) Chlortetra[2-Methylphenylamido]phosphor (Am. 19, 363). — \*II, 251.  
2) Chlortetra[3-Methylphenylamido]phosphor (Am. 19, 363). — \*II, 260.  
3) Chlortetra[4-Methylphenylamido]phosphor (Am. 19, 363). — \*II, 269.
- $C_{28}H_{38}O_4N_2J_2$  1) Aethylester d.  $\alpha\beta$ -Di[2-Isochinolyl]äthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 168—169° u. Zers. (C. r. 134, 1358 C. 1902 [2] 194).  
2) Aethylester d. isom.  $\alpha\beta$ -Di[2-Isochinolyl]äthan-2,2'-Di[Jodammoniumessigsäure]. Sm. 52° (C. r. 134, 1358 C. 1902 [2] 194).
- $C_{28}H_{39}N_3JAs$  1) Methyltri[P-Dimethylamido-4-Methylphenyl]arsoniumjodid. Sm. 135° (A. 321, 215 C. 1902 [2] 47).
- $C_{28}H_{40}ON_3J_3$  1) Tri[Jodmethylat] d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan +  $3H_2O$  (Bl. [3] 13, 556). — \*II, 666.

**C<sub>26</sub>-Gruppe.**C<sub>26</sub>H<sub>24</sub> C 93,5 — H 6,5 — M. G. 372.

1) 1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten (Soc. 79, 1264).

## — 29 II —

C<sub>26</sub>H<sub>20</sub>O<sub>3</sub> C 83,6 — H 4,8 — O 11,5 — M. G. 416.

1) Benzolat d. 7-Oxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 189° (B. 35, 1523 C. 1902 [1] 1210).

C<sub>26</sub>H<sub>21</sub>N<sub>3</sub>5) 7,9-Anhydro-7-Phenyloxydhydrat d. 9-Phenylamido-10-Methyl- $\alpha\beta$ -Naphthophenazin (B-o-Methylphenylisorosindulin). HCl, HNO<sub>3</sub> (B. 34, 943).C<sub>26</sub>H<sub>22</sub>O<sub>2</sub>

C 86,5 — H 5,5 — O 8,0 — M. G. 402.

1) 1-Oxy-3-Keto-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 208° (Soc. 79, 1258).

C<sub>26</sub>H<sub>23</sub>Cl2) Alkoholat (aus Benzyliden- $\beta$ -Dinaphtyloxyd) (B. 34, 3306).

1) 1- oder 3-Chlor-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 181° (Soc. 79, 1263).

C<sub>26</sub>H<sub>24</sub>O

2) 1- oder 3-Oxy-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 162° (Soc. 79, 1261).

C<sub>26</sub>H<sub>24</sub>O<sub>4</sub>

2) Diaacetat d. 4,4'-Dioxytetraphenylmethan. Sm. 170—171° (Soc. 79, 1210).

C<sub>26</sub>H<sub>24</sub>O<sub>13</sub>

C 60,0 — H 4,1 — O 35,9 — M. G. 580.

1) Pentaacetat d. Verb. C<sub>16</sub>H<sub>11</sub>O<sub>3</sub> (G. 32 [2] 18 C. 1902 [2] 906).C<sub>26</sub>H<sub>28</sub>O<sub>2</sub>

C 85,3 — H 6,9 — O 7,8 — M. G. 408.

1) 1-Oxy-3-Keto-4-Amyl-1,5-Diphenyl-2-Benzyliden-2,3-Dihydro-R-Penten. Sm. 156° (Soc. 79, 1042).

C<sub>26</sub>H<sub>28</sub>O<sub>14</sub>

2) Aethyl ester d. Tetraacetylanhydroeuzanthinsäure. Sm. 216° (A. 318, 363).

C<sub>26</sub>H<sub>31</sub>N<sub>5</sub>

C 77,5 — H 6,9 — N 15,6 — M. G. 449.

1) 4-Di[4-Dimethylamidophenyl]methylamidoazobenzol. Sm. 156,5° (B. 34, 884).

2) 4-[3-Methylamido-4-Methylphenyl]methylamidoazobenzol. Sm. 170—170,5° (B. 35, 914 C. 1902 [1] 811).

C<sub>26</sub>H<sub>32</sub>O<sub>12</sub>

C 60,8 — H 5,8 — O 33,6 — M. G. 572.

1) Onon. Sm. 270° u. Zers. (M. 23, 138 C. 1902 [1] 1104).

C<sub>26</sub>H<sub>32</sub>N<sub>4</sub>2) Di[ $\alpha\beta$ -Di(4-Methylphenyl)hydrazido]methan. Sm. 156—157° (J. pr. [2] 65, 112 C. 1902 [1] 993).C<sub>26</sub>H<sub>34</sub>O<sub>11</sub>

C 62,4 — H 6,1 — O 31,5 — M. G. 558.

1) Samaderin. Sm. 255° (C. 1901 [1] 967).

C<sub>26</sub>H<sub>35</sub>O<sub>9</sub>

C 65,6 — H 7,2 — O 27,2 — M. G. 530.

1) Protokosin. Sm. 176° (Ar. 232, 37; Ar. 239, 682 C. 1902 [1] 269).

## — 29 III —

C<sub>29</sub>H<sub>18</sub>O<sub>4</sub>N<sub>2</sub>

C 76,0 — H 3,9 — O 14,0 — N 6,1 — M. G. 458.

1) Inn. Anhydrid d. 4,4'-Di[Benzoylamido]diphenylmethan-3,3'-Dicarbonsäure (Dibenzoyldianthranilmethan). Sm. 287—288° (A. 324, 133 C. 1902 [2] 1253).

C<sub>29</sub>H<sub>19</sub>O<sub>3</sub>N<sub>3</sub>

C 76,1 — H 4,2 — O 10,5 — N 9,2 — M. G. 457.

1) 10<sup>3</sup>,12-Anhydrid d. 10-[4-Oxyphenyl]amido- $\alpha\beta$ -Naphthophenazin-10<sup>3</sup>-Carbonsäure-12-Phenyloxydhydrat (B. 34, 1090).C<sub>29</sub>H<sub>20</sub>O<sub>2</sub>N<sub>2</sub>

C 81,3 — H 4,7 — O 7,5 — N 6,5 — M. G. 428.

1) Benzolat d. 3-Oximido-2,4,5-Triphenylisopyrrol. Sm. 189° (G. 31 [2] 8).

C<sub>29</sub>H<sub>21</sub>O<sub>2</sub>N<sub>3</sub>

C 78,6 — H 4,7 — O 7,2 — N 9,5 — M. G. 443.

1) Phenylamidoformiat d. 3-Oximido-2,4,5-Triphenylisopyrrol. Sm. 142° (G. 31 [2] 10).

C<sub>29</sub>H<sub>21</sub>O<sub>2</sub>Cl

1) p-Chlor-1-Oxy-3-Keto-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten (Soc. 79, 1260).

C<sub>29</sub>H<sub>21</sub>O<sub>2</sub>Br

1) p-Brom-1-Oxy-3-Keto-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten (Soc. 79, 1260).

- $C_{29}H_{21}N_3Cl_2$  1) 7-Chlorphenylat d. 10-Chlor-5-[4-Methylphenyl]amido- $\alpha\beta$ -Naphtophenazin (*B.* 34, 1091).  
 $C_{29}H_{22}O_6N_2$  C 70,4 — H 4,5 — O 19,4 — N 5,7 — M. G. 494.  
 1) 4,4'-Di[Benzoylamido]diphenylmethan-3,3'-Dicarbonsäure. Sm. 268° u. Zers. (*A.* 324, 132 *C.* 1902 [2] 1253).  
 $C_{29}H_{22}N_4Cl_2$  1) Chlorphenylat d. 9-Chlor-4-[3-Amido-4-Methylphenyl]amido- $\alpha\beta$ -Naphtophenazin. HCl (*B.* 34, 1092).  
 $C_{29}H_{23}ON$  3) Base (aus d. Verb.  $C_{29}H_{25}O_2NCl$ ). Sm. 214—215°. HCl, (2HCl,  $PtCl_4$ ),  $H_2SO_4$ , Pikrat (*Soc.* 81, 1209 *C.* 1902 [2] 895).  
 $C_{29}H_{23}OBr$  1) P-Brom-1- oder 3-Oxy-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 215° (*Soc.* 79, 1263).  
 $C_{29}H_{23}O_2N$  3) 3-Oximido-1-Oxy-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 167° (*Soc.* 79, 1259).  
 $C_{29}H_{24}O_5N_6$  C 64,9 — H 4,5 — O 14,9 — N 15,7 — M. G. 536.  
 1) Diäthylester d. 4,4'-Biphenylenmonobenzoyldi[Hydrazoncyanessigsäure]. Sm. 198—200° (*Bl.* [3] 27, 113 *C.* 1902 [1] 722).  
 $C_{29}H_{24}O_6N_4$  2) Dimethylester d. 4,4'-Di[4-Oxyphenylazo]diphenylmethan-3,3'-Dicarbonsäure (*J. pr.* [2] 63, 253).  
 $C_{29}H_{24}N_2S$  1)  $\alpha$ -Methyl- $\alpha$ -Phenyl- $\beta$ -Di[1-Naphtyl]methylthioharnstoff. Sm. 210 bis 211° (*C.* 1902 [2] 790).  
 $C_{29}H_{25}ON_3$  C 80,7 — H 5,8 — O 3,7 — N 9,7 — M. G. 431.  
 1)  $\alpha$ -[1-Naphtyl]amido- $\beta$ -[ $\beta$ -Phenyl- $\alpha$ -1-Naphtylureido]äthan. Sm. 266° (*Soc.* 79, 260).  
 $C_{29}H_{25}O_2N$  3) Verbindung (aus  $\beta$ -Naphtol u. 4-Dimethylamidobenzaldehyd). HCl (*Soc.* 81, 1208 *C.* 1902 [2] 895).  
 $C_{29}H_{26}OS_2$  1) Diphenyläther d.  $\alpha\epsilon$ -Dimerkapto- $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 139—140° (*B.* 35, 813 *C.* 1902 [1] 756).  
 $C_{29}H_{26}O_4N_4$  C 70,4 — H 5,3 — O 12,9 — N 11,4 — M. G. 494.  
 1) Farbstoff (aus d. Verb.  $C_{29}H_{21}O_5N_3$ ) (*J. pr.* [2] 63, 92).  
 $C_{29}H_{26}O_5S_2$  1)  $\alpha\epsilon$ -Di[Phenylsulfon]- $\gamma$ -Keto- $\alpha\epsilon$ -Diphenylpentan. Sm. 166° (*B.* 35, 814 *C.* 1902 [1] 756).  
 $C_{29}H_{27}ON$  C 63,9 — H 4,9 — O 2,9 — N 28,2 — M. G. 545.  
 1)  $\alpha$ -Verbindung (aus Dibenzylketon u. Benzyliden-p-Toluidin). Sm. 164°. HCl (*Soc.* 81, 443 *C.* 1902 [1] 1011).  
 2)  $\beta$ -Verbindung (aus Dibenzylketon u. Benzyliden-p-Toluidin). Sm. 174 bis 175° (*Soc.* 81, 444 *C.* 1902 [1] 1012).  
 3)  $\gamma$ -Verbindung (aus Dibenzylketon u. Benzyliden-p-Toluidin). Sm. 181 bis 182° (*Soc.* 81, 444 *C.* 1902 [1] 1012).  
 $C_{29}H_{26}ON$  C 85,5 — H 7,1 — O 3,9 — N 3,4 — M. G. 407.  
 1) 1,3-Diphenyl-2-Amyl-1,2-Dihydro-4,2- $\beta$ -Naphtisoxazin. Sm. 141° (*G.* 31 [2] 180).  
 $C_{29}H_{29}O_2P$  1) Tri[4-Methylphenyl]phenylphosphorketobetain. Sm. 177° (*A.* 315, 90).  
 $C_{29}H_{29}O_2As$  1) Tri[4-Methylphenyl]phenylarsenketobetain. Sm. 160° (*A.* 321, 210 *C.* 1902 [2] 47).  
 $C_{29}H_{30}O_3N_2$  C 76,7 — H 6,6 — O 10,6 — N 6,1 — M. G. 454.  
 1) Cinnamylchinin. Sm. 111°. HCl (*C.* 1901 [2] 865; D.R.P. 128116 *C.* 1902 [1] 548; D.R.P. 131595 *C.* 1902 [1] 1382).  
 $C_{29}H_{31}O_5N_3$  C 69,4 — H 6,2 — O 16,0 — N 8,4 — M. G. 501.  
 1) 4-Acetylamidophenylester d. Chininkohlensäure. Sm. 184°. Salicylat (*C.* 1901 [1] 236).  
 $C_{29}H_{32}O_{12}N_4$  C 55,4 — H 5,1 — O 30,6 — N 8,9 — M. G. 628.  
 1) Disazobenzolapioseglykosephloroglucin (*A.* 318, 133).  
 $C_{29}H_{33}O_3N_3$  C 73,9 — H 7,0 — O 10,2 — N 8,9 — M. G. 471.  
 1) Tribenzoylmusculamin. Nadeln; Sd. oberh. 360° (*C. r.* 135, 699 *C.* 1902 [2] 1365).  
 $C_{29}H_{33}SP$  1) Tri[2,4,5-Trimethylphenyl]phosphinsulfid. Sm. 192° (*A.* 315, 102).  
 $C_{29}H_{35}JAs$  1) Äthyltri[4-Isopropylphenyl]arsoniumjodid. Sm. 138° (*A.* 321, 238 *C.* 1902 [2] 49).

- $C_{29}H_{23}ONBr_2$  1) Verbindung (aus d. Base  $C_{19}H_{23}ON$ ). Sm. 196° (*Soc.* 81, 1211 *C.* 1902 [2] 895).

- $C_{29}H_{23}ON_4Cl$  1) 7-Phenyl oxydhydrat d. 9-Chlor-4-[3-Amido-4-Methylphenyl]-amido- $\alpha\beta$ -Naphthophenazin. Chlorid, Bichromat (*B.* 34, 1093).
- $C_{29}H_{28}OClP$  1) Benzoylmethyltri[4-Methylphenyl]phosphoniumchlorid. Sm. 226° 2 +  $PtCl_4$  (*A.* 315, 90).
- $C_{29}H_{28}OClAs$  1) Benzoylmethyltri[4-Methylphenyl]arsoniumchlorid. Sm. 159° (*A.* 321, 210 *C.* 1902 [2] 47).
- $C_{29}H_{28}OBrP$  1) Benzoylmethyltri[4-Methylphenyl]phosphoniumbromid. Sm. 248° (*A.* 315, 91).
- $C_{29}H_{28}OBrAs$  1) Benzoylmethyltri[4-Methylphenyl]arsoniumbromid. Sm. 182° (*A.* 321, 211 *C.* 1902 [2] 47).
- $C_{29}H_{28}OJP$  1) Benzoylmethyltri[4-Methylphenyl]phosphoniumjodid. Sm. 236° (*A.* 315, 91).
- $C_{29}H_{28}OJAs$  1) Benzoylmethyltri[4-Methylphenyl]arsoniumjodid. Sm. 148° (*A.* 321, 211 *C.* 1902 [2] 47).
- $C_{29}H_{29}O_3N_3S$  1) 4', 4''-Di[Dimethylamido]-4'''-Phenylamidotriphenylmethan- $\beta$ -Sulfonsäure (*C.* 1901 [1] 1031).
- $C_{29}H_{30}O_4N_2S_2$  1) Di[Phenylbenzylamid] d. Propan- $\alpha\gamma$ -Disulfonsäure. Sm. 160° (*B.* 34, 3480).
- $C_{29}H_{42}ON_6J_3$  1) Tri[Jodmethylat] d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan- $\alpha$ -Methyläther +  $3H_2O$  (*Bl.* [3] 13, 567). — \*II, 667.

### $C_{30}$ -Gruppe.

- $C_{30}H_{15}O_3$  C 78,6 — H 3,9 — O 17,5 — M. G. 458.
- 1) Fluoresceïn (aus 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure) (*B.* 35, 1410 *C.* 1902 [1] 1156).
- $C_{30}H_{15}O_7$  C 73,5 — H 3,7 — O 22,8 — M. G. 490.
- 1) Dioxylfluoresceïn (aus 1,2-Diphenyl-R-Buten-3,4-Dicarbonsäure) (*B.* 35, 1787 *C.* 1902 [2] 54).
- $C_{30}H_{21}As$  1) Tri[1-Naphtyl]arsin. Sm. 152° (*A.* 321, 242 *C.* 1902 [2] 49).
- 2) Tri[2-Naphtyl]arsin. Sm. 165°. +  $HgCl_2$  (*A.* 321, 246 *C.* 1902 [2] 49).
- $C_{30}H_{22}O_3$  1) Anhydrid d. Allo- $\alpha\beta$ -Diphenylakrylsäure (*G.* 31 [2] 78).
- 3) Benzoat d. 7-Oxy-5-Methyl-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 134—136° (*B.* 35, 1809 *C.* 1902 [2] 118).
- $C_{30}H_{22}O_{11}$  C 64,5 — H 3,9 — O 31,5 — M. G. 558.
- 1) Pentaacetat d. Cörolin (*Am.* 26, 143).
- $C_{30}H_{22}O_{12}$  C 62,7 — H 3,8 — O 33,4 — M. G. 574.
- 1) Triptalat d. Glycerins (*C.* 1902 [1] 136).
- $C_{30}H_{23}N_3$  C 84,7 — H 5,4 — N 9,9 — M. G. 425.
- 1) 7,9-Anhydro-7-Phenyl oxydhydrat d. 9-[4-Methylphenyl]amido-10-Methyl- $\alpha\beta$ -Naphthophenazin (B-o-Methyl-p-Tolylisorosindulin). Sm. 225—226° (*B.* 34, 944).
- $C_{30}H_{24}O_9$  2) Dibenzoat d. Aloïn. Sm. 107—108° (*C.* 1901 [2] 44).
- $C_{30}H_{24}O_{16}$  \* 1) Salazinsäure. Sm. 265—267° u. Zers. (260°) (*A.* 317, 111; *J. pr.* [2] 63, 536; *J. pr.* [2] 65, 556 *C.* 1902 [2] 381).
- $C_{30}H_{24}N_4$  \* 1) Azophenin. Sm. 246° (*B.* 34, 1271).
- $C_{30}H_{25}N_5$  2) Verbindung (aus Dimethylnaphtosafranin) (*C.* 1902 [2] 805).
- $C_{30}H_{26}O$  3) Aethyläther d. 9-[ $\alpha$ -Oxybenzyl]-10-Benzylanthracen. Sm. 218° (*M.* 23, 678 *C.* 1902 [2] 745).
- $C_{30}H_{28}O_3$  C 82,6 — H 6,4 — O 11,0 — M. G. 436.
- 1) Diäthyläther d.  $\beta$ -4-Oxybenzpinakolin. Sm. 110° (*C.* 1902 [2] 1200).
- $C_{30}H_{28}O_5$  C 69,8 — H 5,4 — O 24,8 — M. G. 516.
- 1) Alkannasäure (*C.* 1902 [2] 1001).
- $C_{30}H_{28}N_2$  3) 4,4'-Di[Benzylidenamido]-3,3'-Diäthylbiphenyl. Sm. 124—125° (*J. pr.* [2] 66, 164 *C.* 1902 [2] 936).
- $C_{30}H_{30}O_2$  C 85,3 — H 7,1 — O 7,6 — M. G. 422.
- 1)  $\alpha\beta$ -Dioxy- $\alpha\beta$ -Diphenyl- $\alpha\beta$ -Di[2,4-Dimethylphenyl]äthan. Sm. 167° (*C.* 1902 [2] 1200).
- $C_{30}H_{30}N_4$  3) 4,4'-Di[4-Dimethylamidobenzylidenamido]biphenyl. Sm. 317° (*B.* 35, 1435 *C.* 1902 [1] 1205).
- $C_{30}H_{30}S_4$  1) Tetraphenyläther d.  $\beta\beta\epsilon\epsilon$ -Tetramerkaptohexan. Sm. 137—138° (*B.* 35, 504 *C.* 1902 [1] 637).



- $C_{30}H_{32}O_5$  C 76,3 — H 6,8 — O 16,9 — M. G. 472.  
 1) Diäthylester d.  $\gamma$ -Keto- $\alpha\epsilon$ -Diphenyl- $\beta$ -Benzylpentan- $\beta\delta$ -Dicarbonsäure (D. d. Tribenzylacetondicarbonsäure). Sm. 82° (B. 34, 1997).  
 $C_{30}H_{32}N_4$  C 80,4 — H 7,1 — N 12,5 — M. G. 448.  
 1) 1,2,4,5-Tetra[2-Methylphenyl]hexahydro-1,2,4,5-Tetrazin. Sm. 187—188° u. Zers. (J. pr. [2] 65, 119 C. 1902 [1] 993).  
 2) 1,2,4,5-Tetra[3-Methylphenyl]hexahydro-1,2,4,5-Tetrazin. Sm. 166,5—167,5° (J. pr. [2] 65, 122 C. 1902 [1] 994).  
 3) 1,2,4,5-Tetra[4-Methylphenyl]hexahydro-1,2,4,5-Tetrazin. Sm. 213—214° (J. pr. [2] 65, 110 C. 1902 [1] 993).  
 $C_{30}H_{34}O_4$  \*1) Santonon. Sm. 223° (G. 32 [1] 350 C. 1902 [1] 1407).  
 3) Verbindung (aus Santonin). Sm. 239° (G. 32 [1] 350 C. 1902 [1] 1407).  
 $C_{30}H_{36}O_{10}$  \*1) Coriamyrtin (oder  $C_{15}H_{18}O_5$ ) (Soc. 79, 125).  
 $C_{30}H_{38}O_7$  C 70,6 — H 7,4 — O 22,0 — M. G. 510.  
 1) Verbindung (aus Santonin). Sm. 300° (G. 32 [1] 300 C. 1902 [1] 1404).  
 $C_{30}H_{39}O_7$  1) Anchusasäure (C. 1902 [2] 1001).  
 $C_{30}H_{39}As$  1) Tri[*p*-tert. Butylphenyl]arsin. Sm. 235° (A. 321, 241 C. 1902 [2] 49).  
 $C_{30}H_{41}O_{16}$  C 54,5 — H 6,6 — O 38,8 — M. G. 660.  
 1) Oktoäthylester der dimolec. Dicarboxyglutakonsäure. Sm. 102 bis 103° (B. 34, 675).  
 2) Oktoäthylester d. isom. dimolec. Dicarboxyglutakonsäure. Sm. 87—88° (B. 34, 676).  
 $C_{30}H_{46}O_4$  2) Lakton d. Callitrolsäure (Soc. 79, 1159).  
 $C_{30}H_{46}O_9$  C 65,4 — H 8,4 — O 26,2 — M. G. 550.  
 1) Acetyldigitogensäure +  $H_2O$ . Sm. 162—165° (B. 34, 3568).  
 $C_{30}H_{48}O$  3) Sugcol. Sd. 264° (C. 1902 [2] 382).  
 $C_{30}H_{48}O_6$  C 73,8 — H 9,8 — O 16,4 — M. G. 488.  
 1) Callitrolsäure. Ag (Soc. 79, 1158).  
 $C_{30}H_{50}O$  \*1)  $\alpha$ -Amyrin. Sm. 181° (Ar. 240, 306 C. 1902 [2] 135).  
 \*2)  $\beta$ -Amyrin. Sm. 192° (Ar. 240, 306 C. 1902 [2] 135).  
 3) Afamyrin. Sm. 170° (Ar. 240, 319 C. 1902 [2] 136).  
 4) Protamyrin. Sm. 170—171° (Ar. 240, 322 C. 1902 [2] 651).  
 $C_{30}H_{50}O_2$  8) Afelesen. Sm. 70—73° (Ar. 240, 320 C. 1902 [2] 136).  
 $C_{30}H_{50}O_7$  C 69,0 — H 9,6 — O 21,4 — M. G. 522.  
 1) Verbindung (aus Digitogenin). Sm. 197—198° (B. 34, 3563).  
 $C_{30}H_{52}O_2$  3) Verbindung (aus Gondangwachs). Sm. 61° (R. 20, 69).

## — 30 III —

- $C_{30}H_{19}N_4Cl_2$  1) 2,9-Dichlor-7,14-Diphenylfluorindin (B. 34, 1219).  
 $C_{30}H_{19}O_2N_5$  C 74,9 — H 3,9 — O 6,6 — N 14,6 — M. G. 481.  
 1) *p*-Nitro-7,14-Diphenylfluorindin (B. 34, 1223).  
 $C_{30}H_{19}N_4Cl$  1) 2-Chlor-7,14-Diphenylfluorindin. Sm. oberh. 360°. 2 HCl (B. 34, 1220).  
 $C_{30}H_{20}ON_6$  C 75,0 — H 4,2 — O 3,3 — N 17,5 — M. G. 480.  
 1) Aether d. 6-Oxy-2-Phenyl-4-[2-Pyridyl]-1,3-Diazin. Sm. 208° (B. 34, 4246 C. 1902 [1] 209).  
 $C_{30}H_{20}O_4N_2$  2) Dibenzoylindigweiss. Zers. bei 240° (B. 34, 1859).  
 $C_{30}H_{20}O_7N_2$  C 69,2 — H 3,8 — O 21,5 — N 5,4 — M. G. 520.  
 1) Anhydrid d.  $\alpha$ -Phenyl- $\beta$ -[2-Nitrophenyl]akrylsäure. Sm. 116° (G. 30 [2] 349). — \*II, 873.  
 2) Anhydrid d.  $\alpha$ -Phenyl- $\beta$ -[3-Nitrophenyl]akrylsäure. Sm. 151° (129°) (G. 30 [2] 353; 31 [2] 83). — \*II, 873.  
 3) Anhydrid d.  $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akrylsäure. Sm. 162° (G. 30 [2] 352). — \*II, 873.  
 4) Anhydrid d. Allo- $\alpha$ -Phenyl- $\beta$ -[4-Nitrophenyl]akrylsäure. Sm. 182° (G. 30 [2] 345). — \*II, 873.  
 $C_{30}H_{20}N_9Cl$  1) Phenanthroindulinchlorid (B. 34, 1212).  
 $C_{30}H_{21}OAs$  1) Tri[1-Naphtyl]arsinoxid (A. 321, 245 C. 1902 [2] 49).  
 2) Tri[2-Naphtyl]arsinoxid (A. 321, 247 C. 1902 [2] 49).  
 $C_{30}H_{21}O_2N$  C 84,3 — H 4,9 — O 7,5 — N 3,3 — M. G. 427.  
 1) Aethylalkoholat d. Pseudophenanthrazoxoniumhydroxyd. Sm. 245° (A. 322, 32 C. 1902 [2] 222).

- $C_{30}H_{21}O_3B$  1) Tri[2-Naphtylester] d. Borsäure. Sm. 115° (A. 315, 42).
- $C_{30}H_{21}Cl_4As$  1) Tri[1-Naphtyl]arsintetrachlorid. Sm. 144° (A. 321, 244 C. 1902 [2] 49).
- $C_{30}H_{21}Br_4As$  1) Tri[1-Naphtyl]arsintetrabromid. Sm. 180° (A. 321, 244 C. 1902 [2] 49).
- $C_{30}H_{21}SAs$  1) Tri[2-Naphtyl]arsinsulfid. Sm. 162° (A. 321, 247 C. 1902 [2] 49).
- $C_{30}H_{22}N_8Cl$  3) 5,7-Anhydro-9-Chlor-5-[4-Methylphenyl]amido- $\alpha\beta$ -Naphtophenazin-7-[Chlor-4-Methylphenylat] (B. 34, 1104).
- $C_{30}H_{22}N_4Cl_2$  1) 3,6-Dichlor-2,5-Di[Phenylamido]-1,4-Di[Phenylimido]-1,4-Dihydrobenzol (C. 1902 [1] 527).
- $C_{30}H_{23}ON$  \*2) 1,2,3-Triphenyl-1,2-Dihydro-4,2- $\beta$ -Naphtisoxazin. Sm. 199—200° (G. 31 [1] 392; 31 [2] 197).
- 3) 2,3,4-Triphenyl-3,4-Dihydro-1,3- $\alpha$ -Naphtisoxazin. Sm. 156—171° (158—160°; 195—197°) (G. 31 [2] 197, 211).
- $C_{30}H_{23}O_2As$  1) Tri[1-Naphtyl]oxyarsoniumhydroxyd + 2H<sub>2</sub>O. Sm. oberh. 300° (A. 321, 245 C. 1902 [2] 49).
- $C_{30}H_{23}N_3Cl_2$  1) 7-[Chlor-4-Methylphenylat] d. 9-Chlor-5-[4-Methylphenyl]amido- $\alpha\beta$ -Naphtophenazin (B. 34, 1105).
- $C_{30}H_{24}ON_4$  2) 5,5-Dibenzoylfurandiphenylhydrazon. Sm. 155—156° (Am. 25, 460).
- $C_{30}H_{24}O_6N_6$  C 63,8 — H 4,3 — O 17,0 — N 14,9 — M. G. 564.
- 1)  $\alpha\beta$ -Di[Acetyl-4-Nitrophenylhydrazon]- $\alpha\beta$ -Diphenyläthan. Sm. 244° (B. 35, 3522 C. 1902 [2] 1324).
- $C_{30}H_{24}N_6S_4$  1) Disulfid d. 3-Merkapto-5-Thiocarbonyl-4-Phenyl-1-[4-Methylphenyl]-4,5-Dihydro-1,2,4-Triazol. Sm. 205° (B. 34, 315).
- 2) Disulfid d. 5-Merkapto-2-Phenylimido-3-[4-Methylphenyl]-2,3-Dihydro-1,3,4-Thiodiazol. Sm. 130° (B. 34, 316).
- $C_{30}H_{25}O_{11}N_2$  C 60,8 — H 4,7 — O 29,7 — N 4,7 — M. G. 592.
- 1) Tetraacetylderivat d. 9-Dimethylamido-4-[3-Oxyphenoxy]-2,3-Dioxyphenoxazin-5-Carbonsäuremethylester. Sm. 275° (C. 1902 [1] 940).
- $C_{30}H_{30}ON_4$  3) Verbindung (aus Formaldehyd u. isom. Anhydroformaldehydanilin) (C. 1901 [2] 73).
- $C_{30}H_{30}O_2N_4$  C 75,3 — H 6,3 — O 6,7 — N 11,7 — M. G. 478.
- 1)  $\alpha\beta$ -Di[ $\beta$ -Phenyl- $\alpha$ -2-Methylphenylureido]äthan. Sm. 195—196° (Soc. 79, 259).
- 2)  $\alpha\beta$ -Di[ $\beta$ -Phenyl- $\alpha$ -3-Methylphenylureido]äthan. Sm. 181,5° (Soc. 79, 259).
- 3)  $\alpha\beta$ -Di[ $\beta$ -Phenyl- $\alpha$ -4-Methylphenylureido]äthan. Sm. 186° (Soc. 79, 259).
- $C_{30}H_{30}O_2N_6$  2) Tri[Acetyl-4-Methylphenyl]isomelamin. Sm. 236° u. Zers. (J. pr. [2] 65, 376 C. 1902 [1] 1329).
- $C_{30}H_{30}O_4N_4$  C 70,6 — H 5,9 — O 12,5 — N 11,0 — M. G. 510.
- 1) Di[Diphenylhydrazon] d. d-Läulose (D. d. d-Fruktose). Sm. 167° (B. 35, 962 C. 1902 [1] 860).
- $C_{30}H_{30}O_8S_4$  1)  $\beta\beta\epsilon\epsilon$ -Tetraphenylsulfonhexan. Sm. 244° u. Zers. (B. 35, 504 C. 1902 [1] 637).
- $C_{30}H_{30}N_4S_2$  1) Verbindung (aus Benzaldehyd, Methylanilin u. Rubeanwasserstoff). Sm. 154° (C. 1899 [2] 1025).
- $C_{30}H_{30}N_4Se$  1) Phenylhydrazon d. Selenomethyl-p-Tolylketon (A. 314, 291).
- $C_{30}H_{31}O_8Cl_2$  1) Triäthylester d. 1,3-Diphenyl-R-Tetramethylen-2,4-Di[ $\alpha$ - oder  $\beta$ -Chloräthyl- $\beta\beta$ -Dicarbonsäure]. Sm. 185° u. Zers. (Am. 28, 237 C. 1902 [2] 1047).
- $C_{30}H_{31}O_{10}N_4$  C 59,0 — H 5,6 — O 26,2 — N 9,2 — M. G. 610.
- 1) Bitolyldihydrazon d. Oxalessigsäurediäthylester. Sm. 194—195° (Bl. [3] 27, 984 C. 1902 [2] 1174).
- $C_{30}H_{31}O_{12}N_4$  C 56,1 — H 5,3 — O 29,9 — N 8,7 — M. G. 642.
- 1) Bianisylhydrazon d. Oxalessigsäurediäthylester. Sm. 224—225° (Bl. [3] 27, 984 C. 1902 [2] 1174).
- $C_{30}H_{33}O_4N_2$  3) Santoninhydrazid. Sm. 254° u. Zers. (G. 31 [2] 309).
- $C_{30}H_{33}O_5N_2$  C 71,4 — H 7,1 — O 15,9 — N 5,6 — M. G. 504.
- 1) Verbindung (aus Isophotosantonsäureoxim). Sm. 279° u. Zers. (G. 32 [1] 316 C. 1902 [1] 1405).
- $C_{30}H_{38}JP$  1) Methyltri[2,4,5-Trimethylphenyl]phosphoniumjodid. Sm. 291° (A. 315, 102).

- $C_{30}H_{39}OAs$  1) Tri[*p*-tert. Butylphenyl]arsinoxyd. Sm. 360° (*A.* 321, 242 *C.* 1902 [2] 49).  
 $C_{30}H_{41}ON_3$  C 78,4 — H 8,9 — O 3,5 — N 9,2 — M. G. 459.  
 1) Isoamyläther d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan. Fl. (*Bl.* [3] 13, 564). — \*II, 667.  
 $C_{30}H_{44}O_4N_2$  \*1) Emetin (*Ar.* 240, 390 *C.* 1902 [2] 967).  
 2) Pilocereïn. Sm. 82—83°. (2HCl, PtCl<sub>4</sub>), 2(HCl, AuCl<sub>3</sub>) (*C.* 1901 [2] 813).

## — 30 IV —

- $C_{30}H_{21}ON_3Cl$  1) Phenanthrosindulin. Chlorid, Bichromat (*B.* 34, 1212).  
 $C_{30}H_{21}O_2N_4Cl_3$  1) Verbindung (aus Anilinschwarz) (*B.* 34, 1290).  
 $C_{30}H_{22}OBrAs$  1) Tri[1-Naphtyl]arsinoxybromid. Sm. 155° (*A.* 321, 244 *C.* 1902 [2] 49).  
 $C_{30}H_{26}ONJ$  1) Jodmethylat d. Base  $C_{29}H_{23}ON$ . Sm. 226—227° (*Soc.* 81, 1210 *C.* 1902 [2] 895).  
 $C_{30}H_{25}ON_2S_2$  1) Anhydrid d. Dibenzylamidothioameisensäure? Sm. 81° (*B.* 35, 3388 *C.* 1902 [2] 1364).  
 $C_{30}H_{44}ON_3J_3$  1) Tri[Jodmethylat] d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan- $\alpha$ -Aethyläther. Sm. 143° (*Bl.* [3] 13, 567).

**C<sub>31</sub>-Gruppe.**

- $C_{31}H_{64}$  \*1) Hentriakontan. Sm. 67,8—68,5° (*Soc.* 79, 985).

## — 31 II —

- $C_{31}H_{20}O_2$  C 87,7 — H 4,7 — O 7,5 — M. G. 424.  
 1) Tri[2-Oxynaphtyl]methanoxyd. Sm. 273° (*C.* 1901 [1] 894, 945; *B.* 16 [2] 967; *A. ch.* [5] 28, 188; *Bl.* [3] 27, 529 *C.* 1902 [2] 125). — II, 1095; \*II, 628.  
 $C_{31}H_{24}O_3$  C 83,8 — H 5,4 — O 10,8 — M. G. 444.  
 1) Acetat d. 1-Oxy-3-Keto-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 218° (*Soc.* 79, 1260).  
 $C_{31}H_{24}O_4$  2) Diacetat d. Phenyl-di[2-Oxy-1-Naphtyl]methan. Sm. 199° (*B.* 34, 203). — \*II, 611.  
 $C_{31}H_{24}N_2$  2) 9-Benzylamido-10-Methyl-12-Phenyl- $\alpha$ -Phenakridin. Sm. 302°. HCl, HBr (*B.* 35, 339 *C.* 1902 [1] 595).  
 $C_{31}H_{26}O_2$  C 86,5 — H 6,0 — O 7,4 — M. G. 430.  
 1) Acetat d. 1- oder 3-Oxy-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 181—182° (*Soc.* 79, 1262).  
 $C_{31}H_{31}N_3$  C 83,6 — H 7,0 — N 9,4 — M. G. 445.  
 1) 1-Naphtyl-di[1,2,3,4-Tetrahydro-1-Naphtyl]guanidin. Sm. 177 bis 179° (*J. pr.* [2] 64, 268).  
 $C_{31}H_{32}S_3$  1) Tribenzyläther *yyy*-Trimerkapto- $\alpha$ -Phenylbutan. Fl. (*B.* 35, 805 *C.* 1902 [1] 755).  
 $C_{31}H_{33}N_5$  C 78,3 — H 6,9 — N 14,7 — M. G. 475.  
 1) 2-Di[4-Dimethylamidophenyl]methylenamido-4,4'-Dimethylazobenzol. Sm. 190° (*B.* 34, 886).  
 $C_{31}H_{34}O_{12}$  C 62,2 — H 5,7 — O, 32,1 — M. G. 598.  
 1) Triacetat d. Leukoeupitton. Sm. 236° (*B.* 34, 1040).  
 $C_{31}H_{35}N_5$  C 78,0 — H 7,3 — N 14,7 — M. G. 477.  
 1) 2-Di[4-Dimethylamidophenyl]methylamido-4,4'-Dimethylazobenzol. Sm. 174,5° (*B.* 34, 885).  
 $C_{31}H_{46}O_{11}$  C 62,6 — H 7,7 — O 29,6 — M. G. 594.  
 1) Kosidin. Sm. 178° (*Ar.* 239, 683 *C.* 1902 [1] 269).  
 $C_{31}H_{48}O_{12}$  \*1) Strophantin (*C.* 1902 [2] 1514).

## — 31 III —

- $C_{31}H_{20}O_6N_4$  2) Dianhydrid d. Malontetraanthranilsäure. Sm. 275° u. Zers. (*C.* 1902 [2] 122).  
 $C_{31}H_{24}O_8N_4$  C 64,1 — H 4,1 — O 22,1 — N 9,7 — M. G. 580.

- $C_{31}H_{24}O_3N_4$  1) **Malontetraanthranilsäure**. Sm. 263—265° (*C.* 1902 [2] 122).  
 $C_{31}H_{25}ON$  C 87,1 — H 5,9 — O 3,7 — N 3,3 — M. G. 427.
- 1) **1,3-Diphenyl-2-Benzyl-1,2-Dihydro-4,2-β-Naphtisoxazin**. Sm. 187° (*G.* 31 [2] 176).  
 2) **1,3-Diphenyl-2-[4-Methylphenyl]-1,2-Dihydro-4,2-β-Naphtisoxazin**. Sm. 205° (*G.* 31 [2] 175).
- $C_{31}H_{26}ON_4$  2) **Oxyphenylazotoluidin**. Sm. 190° (*J. pr.* [2] 65, 67 *C.* 1902 [1] 579).  
 $C_{31}H_{26}O_6N_2$  C 71,3 — H 5,0 — O 18,4 — N 5,3 — M. G. 522.
- 1) **Dimethylester d. 4,4'-Di[Benzoylamido]diphenylmethan-3,3'-Dicarbonsäure**. Sm. 221,5 (*J. pr.* [2] 63, 251).  
 2) **Pentaacetat d. Tetrachlorbarbaloin** (*C. r.* 134, 1585 *C.* 1902 [2] 370).  
 $C_{31}H_{26}O_{14}Cl_4$  1) **Piperidinoflavindulinchlorid + H<sub>2</sub>O** (*B.* 34, 1211).  
 $C_{31}H_{26}N_6Cl$  C 71,5 — H 5,4 — O 12,3 — N 10,8 — M. G. 520.  
 $C_{31}H_{28}O_9N_4$  1) **Tetra[Phenylamid] d. Propan-αγγ-Tetracarbonsäure**. Sm. 255 bis 256° (*J. pr.* [2] 66, 6 *C.* 1902 [2] 507).  
 $C_{31}H_{28}O_9N_6$  C 65,9 — H 5,0 — O 14,2 — N 14,9 — M. G. 564.
- 1) **Diäthylester d. 3,3'-Dimethyl-4,4'-Biphenylenmonobenzoyldi[Methylhydrazoncyanessigsäure]**. Sm. 229—230° (*Bl.* [3] 27, 118 *C.* 1902 [1] 722).  
 $C_{31}H_{29}O_4N_3$  C 73,4 — H 5,7 — O 12,6 — N 8,3 — M. G. 507.
- 1) **Verbindung** (aus Hydrobenzamid u. Cyanessigsäureäthylester). Sm. 197° u. Zers. (*C.* 1902 [2] 741).  
 $C_{31}H_{30}O_5S_2$  1) **αs-Di[Benzylsulfon]-γ-Keto-αs-Diphenylpentan**. Sm. 185° (*B.* 35, 812 *C.* 1902 [1] 756).  
 $C_{31}H_{32}O_6S_3$  1) **αγγ-Tri[Benzylsulfon]-α-Phenylbutan**. Sm. 112—113° (*B.* 35, 805 *C.* 1902 [1] 755).  
 $C_{31}H_{36}O_4N_2$  C 74,4 — H 7,2 — O 12,8 — N 5,6 — M. G. 500.
- 1) **Thymolester d. Chininkohlensäure**. Sm. 186°. Salicylat (*C.* 1901 [1] 236).  
 $C_{31}H_{38}O_3N_2$  C 65,7 — H 6,7 — O 22,6 — N 4,9 — M. G. 566.
- 1) **Tetraäthylester d. 2,5-Di[2,5-Dimethyl-1-Pyrryl]-1-Methylbenzol-2',2',5',5'-Tetracarbonsäure**. Sm. 134° (*B.* 35, 683 *C.* 1902 [1] 715).  
 $C_{31}H_{42}JAs$  1) **Methyltri[β-tert. Butylphenyl]arsoniumjodid**. Zers. bei 125° (*A.* 321, 242 *C.* 1902 [2] 49).  
 $C_{31}H_{43}OAs$  1) **Methyltri[β-tert. Butylphenyl]arsoniumhydroxyd + 4H<sub>2</sub>O**. Sm. 136° (*A.* 321, 242 *C.* 1902 [2] 49).  
 $C_{31}H_{54}ON_2$  \*1) **s-Dipentadekylharnstoff**. Sm. 110° (*J. pr.* [2] 64, 433 *C.* 1902 [1] 24).

## — 31 IV —

- $C_{31}H_{29}O_{12}N_3S_3$  1) **α-[5-Oxy-2-Naphtyl]imido-αα-Di[5-Oxy-2-Naphtylamido]methan-7,7',7''-Trisulfonsäure** (D.R.P. 129417 *C.* 1902 [1] 789).  
 2) **α-[5-Oxy-2-Naphtyl]imido-α-[5-Oxy-1-Naphtylamido]-α-[5-Oxy-2-Naphtylamido]methan-7,7',7''-Trisulfonsäure** (D.R.P. 129418 *C.* 1902 [1] 790).
- $C_{31}H_{27}ON_3Cl$  1) **Pipiridinoflavindulin**. Chlorid, Bichromat (*B.* 34, 1211).  
 $C_{31}H_{26}O_4NS$  1) **Di[β-2-Naphtoxyläthyl]amid d. 1-Methylbenzol-4-Sulfonsäure**. Sm. 130° (*B.* 34, 1158; *C.* 1901 [1] 1074).
- $C_{31}H_{34}O_2N_3Cl$  1) **Farbstoff** (aus 4,4'-Tetramethylamidodiphenylketon u. 1-Naphtyl-amidoessigsäureäthylester) (D.R.P. 128176 *C.* 1902 [1] 507).

**C<sub>32</sub>-Gruppe.**

- $C_{32}H_{22}$  C 94,5 — H 5,4 — M. G. 406.  
 1) **Pyrodypnopinalkolen**. Sm. 136° (154—156°); Sd. 330—333°<sub>15</sub> (*C.* 1902 [2] 197).
- $C_{32}H_{24}$  3) **Isodypnopinalkolen**. Sm. 172°. — \*II, 135.  
 4) **isom. Isodypnopinalkolen**. Sm. 159—160°. — \*II, 135.

## — 32 II —

- $C_{32}H_{20}O_8$  C 72,2 — H 3,8 — O 24,0 — M. G. 532.  
 1) **Tribenzoat d. Purpurogallin**. Sm. 213° (*C.* 1902 [1] 1055).
- $C_{32}H_{22}O$  C 91,0 — H 5,2 — C 3,8 — M. G. 422.

- $C_{32}H_{22}O$  1) Dehydropyrodypnopinakolalkohol. Sm. 203,5°; Sd. 300—320° (i. V.) (C. 1902 [2] 197).  
2) Pyrodypnopinakolin. Sm. 166°; Sd. 465—475°. + Essigsäure, + Aceton, + Essigsäureäthylester (C. 1902 [2] 197).
- $C_{32}H_{22}O_2$  2) Methyläther d. Tri[2-Oxynaphtyl]methanoxyd. Sm. 255° (C. 1901 [1] 945). — \*II, 628.
- $C_{32}H_{22}O_4$  4) Diacetat d. Dianthranol. Sm. 276—279° u. Zers. (Am. 18, 462). — \*II, 541.
- $C_{32}H_{26}N_5$  2) 3,5-Di[2-Naphtylimido]-1-[2-Naphtyl]tetrahydro-1,2,4-Triazol. Sm. 216° (B. 35, 1726 C. 1902 [2] 32).
- $C_{32}H_{24}O$  3) Pyrodypnopinakolalkohol. Sm. 156°; Sd. 310—328°<sub>15</sub> (C. 1902 [2] 197).  
 $C_{32}H_{24}O_4$  3) polym. Cumaron. Sm. 107—108° (C. 1902 [1] 355).  
 $C_{32}H_{24}N_2$  4) 1,3,4-Triphenyl-6-[2-Naphtyl]-1,2-Dihydro-1,2-Diazin. Sm. 192° (B. 35, 2171 C. 1902 [2] 261).  
C 82,8 — H 5,2 — N 12,0 — M. G. 464.
- $C_{32}H_{24}N_4$  1) 9-Phenylhydrazon-2- oder 3-[ $\alpha$ -Phenylhydrazonbenzyl]fluoren. Sm. 83° (M. 23, 927 C. 1902 [2] 1472).  
 $C_{32}H_{26}O$  \*4)  $\alpha$ -Isodypnopinakolin (C. 1902 [2] 197).  
 $C_{32}H_{26}O_4$  2)  $\alpha$ -Methylanhydroacetondibenzyl. Sm. 185° (194°). Na, K + 4 C<sub>2</sub>H<sub>5</sub>O (Soc. 79, 1034).  
 $C_{32}H_{28}O_2$  5)  $\beta$ -Homodypnopinakon. Sm. 172° (Bull. Belg. [3] 32, 465). — \*II, 678.  
 $C_{32}H_{28}N_3$  3) 1,4-Di[Diphenylamidomethyl]benzol. Sm. 186° (B. 34, 2085).  
 $C_{32}H_{32}O_{15}$  C 58,5 — H 4,9 — O 36,6 — M. G. 656.
- 1) Tetraacetat d. Pseudoonospin. Sm. 188—189° (M. 23, 160 C. 1902 [1] 1104).
- $C_{32}H_{34}S_4$  1) Tetrabenzyläther d.  $\beta\beta\gamma\gamma$ -Tetramerkaptobutan. Sm. 164—165° (B. 35, 498 C. 1902 [1] 636).  
C 80,6 — H 7,6 — N 11,8 — M. G. 476.
- $C_{32}H_{36}N_4$  1) 3,6-Dimethyl-1,2,4,5-Tetra[4-Methylphenyl]hexahydro-1,2,4,5-Tetrazin. Sm. 150—151° (J. pr. [2] 65, 115 C. 1902 [1] 993).  
C 53,9 — H 5,6 — O 40,5 — M. G. 712.
- $C_{32}H_{40}O_{13}$  1) Heptaacetat d.  $\beta$ -Phenolmaltosid. Sm. 157—158° (B. 35, 3154 C. 1902 [2] 1177).  
C 79,0 — H 9,5 — N 11,5 — M. G. 486.
- $C_{32}H_{46}N_4$  1) Phenylhydrazon d. Keton C<sub>20</sub>H<sub>24</sub>O<sub>3</sub>. Sm. 260° (B. 34, 1933).  
 $C_{32}H_{50}O_{12}$  C 61,3 — H 8,0 — O 30,7 — M. G. 626.
- $C_{32}H_{60}O$  1) Acocantherin. Zers. bei 220° (C. 1902 [2] 1217).  
\*1) Cetyläther. Sm. 57—58° (G. 31 [1] 341).

- $C_{32}H_{16}ON_4$  C 81,4 — H 3,4 — O 3,4 — N 11,8 — M. G. 472.  
1) Di- $\alpha\beta$ -Naphtophenazin-5,6'-6,5'-Furan. Sm. oberh. 300° (B. 34, 1058).  
 $C_{32}H_{17}ON_5$  C 78,8 — H 3,5 — O 3,3 — N 14,4 — M. G. 487.  
1) Dinaphtophenazinnoxazin. Sm. oberh. 300° (B. 34, 1059).  
 $C_{32}H_{19}O_2N_5$  C 76,0 — H 3,8 — O 6,3 — N 13,9 — M. G. 505.  
1) 6-Amido-5'-Oxydi[ $\alpha\beta$ -Naphtophenazin]-5,6'-Oxyd + H<sub>2</sub>O? (B. 34, 1058).  
C 73,3 — H 3,8 — O 12,2 — N 10,7 — M. G. 262.  
 $C_{32}H_{20}O_4N_4$  1) Bisindigotin (C. r. 134, 471 C. 1902 [1] 758).  
2) Indigroth (C. 1901 [2] 779; 1902 [1] 936).
- $C_{32}H_{21}N_3Cl_2$  1) 7-Chlorphenylat d. 10-Chlor-5-[2-Naphtyl]amido- $\alpha\beta$ -Naphtophenazin (B. 34, 1092).
- $C_{32}H_{22}N_3Cl$  1) 3-Phenylamidoflavindulinchlorid (B. 34, 1088).  
 $C_{32}H_{24}N_2S$  1)  $\alpha$ -[2-Naphtyl]- $\beta$ -Di[1-Naphtyl]methylthioharnstoff. Sm. 218—219° (C. 1902 [2] 790).  
C 60,2 — H 4,1 — O 22,6 — N 13,1 — M. G. 638.
- $C_{32}H_{26}O_5N_6$  1) Triacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Nitro-4-Oxyphenyl]äthan. Sm. 248° u. Zers. (A. 321, 31 C. 1902 [1] 928).
- $C_{32}H_{28}O_6N_4$  \*1) Triacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]-äthan (A. 321, 11 C. 1902 [1] 927).  
C 64,0 — H 5,3 — O 21,3 — N 9,3 — M. G. 600.
- $C_{32}H_{32}O_8N_4$  1) Verbindung (aus Phenylhydrazin u. Cetrarsäure). Zers. bei 240° (Ar. 240, 543 C. 1902 [2] 1329).



- $C_{32}H_{31}O_2N_4$  \*1) Phylloporphyrin (*J. pr.* [2] 65, 166 *C. 1902* [1] 1016).  
 2)  $\alpha\beta$ -Di[ $\beta$ -Phenyl- $\alpha$ -2,4-Dimethylphenylureido]äthan. Sm. 167° (*Soc.* 79, 260).  
 $C_{32}H_{34}O_4N_4$  2) Di[Phenylbenzylhydrazon] d. d-Lävulose (D. d. d-Fruktose). Sm. 190° (*B. 35*, 961 *C. 1902* [1] 860).  
 $C_{32}H_{34}O_5S_4$  1)  $\beta\beta\gamma\gamma$ -Tetrabenzylsulfonbutan. Sm. 195—196° (*B. 35*, 498 *C. 1902* [1] 636).  
 $C_{32}H_{34}N_4S_2$  1) Verbindung (aus Formaldehyd, Dibenzylamin u. Rubeanwasserstoff). Sm. 123° (*C. 1899* [2] 1025). — \*II, 301.  
 $C_{32}H_{36}O_3N_4$  \*1) Biliverdin (*C. 1902* [2] 138).  
 $C_{32}H_{37}ON_3$  C 80,2 — H 7,7 — O 3,3 — N 8,8 — M. G. 479.  
 1) Benzyläther d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan. Sm. 174—175° (*C. 1902* [1] 471).  
 $C_{32}H_{40}O_7N_4$  \*1) Urobilin (*C. 1902* [1] 364; 1902 [2] 138).  
 $C_{32}H_{44}O_{23}N_{10}$  C 41,0 — H 4,7 — O 39,3 — N 15,0 — M. G. 936.  
 1) Diamidooktaspartsäure.  $Cu_3 + 18H_2O?$  (*A. 307*, 234). — \*I, 667.  
 $C_{32}H_{48}O_5N_2$  C 71,1 — H 8,9 — O 14,8 — N 5,2 — M. G. 540.  
 1) Di[4-Aethoxyphenylamid] d. Agaricinsäure. Sm. 150—151° (*C. 1902* [1] 823; D. R. P. 130073 *C. 1902* [1] 1082).  
 $C_{32}H_{46}O_9N$  \*1) Cevadin (*C. 1902* [1] 1155).  
 $C_{32}H_{54}O_2N_2$  C 75,6 — H 12,6 — O 6,3 — N 5,5 — M. G. 508.  
 1) Dipalmitylhydrazin. Sm. 147° (*J. pr.* [2] 64, 428 *C. 1902* [1] 24).

## — 32 IV —

- $C_{32}H_{16}O_{11}N_4S_2$  1) Thiofluorescein-2,4-Dinitrophenyläther. Sm. 168° (*R. 20*, 408 *C. 1902* [1] 417).  
 $C_{32}H_{17}O_2N_4Br$  1) 6-Brom-5'-Oxydi[ $\alpha\beta$ -Naphthophenazin]-5,6'-Oxyd. Sm. 300° (*B. 34*, 1057).  
 $C_{32}H_{24}O_5N_4Br_4$  1) Triacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 275° (*A. 321*, 9 *C. 1902* [1] 927).  
 $C_{32}H_{24}O_5N_4J_4$  1) Triacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dijod-4-Oxyphenyl]äthan. Sm. 270° (*A. 321*, 19 *C. 1902* [1] 927).  
 $C_{32}H_{24}O_6N_6S_2$  1) 4,4'-Di[1-Amido-2-Naphtylazo]biphenyl-4',4''-Disulfonsäure.  $Na_2$  (Congoroth) (*J. pr.* [2] 66, 153 *C. 1902* [2] 936).  
 $C_{32}H_{26}O_5N_4Br_2$  1) Triacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3-Brom-4-Oxyphenyl]äthan. Sm. 164° (*A. 321*, 23 *C. 1902* [1] 927).  
 2) Triacetylderivat d.  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 156° (*A. 324*, 318 *C. 1902* [2] 1505).  
 $C_{32}H_{28}O_2N_2S_4$  1) Di[Benzoylimidodithiobenzyl]äthylenäther. Sm. 93—94 (*Am. 27*, 267 *C. 1902* [1] 1299).  
 $C_{32}H_{28}O_4N_2S_2$  1) Di[Phenylbenzylamid] d. Benzol-1,3-Disulfonsäure. Sm. 170° (*B. 35*, 1397 *C. 1902* [1] 1097).  
 $C_{32}H_{30}O_2N_4S_2$  2) Diäthyläther d. 4,4'-Di[Benzoylimidomerkaptomethylamido]-biphenyl (Diphenylendibenzoylthioläthylpseudothioharnstoff). Sm. 179° (*Am. 26*, 415).  
 $C_{32}H_{30}O_3N_4Fe$  \*1) Hämin (*B. 34*, 997).  
 $C_{32}H_{32}O_4N_4As_2$  1) Tetra[ $\beta$ -Acetylamidophenyl]diarsin. Sm. 162° (*A. 321*, 150 *C. 1902* [2] 43).

## — 32 V —

- $C_{32}H_{32}O_4N_4SAs_2$  1) Di[Di( $\beta$ -Acetylamidophenyl)arsen]sulfid. Sm. 175° (*A. 321*, 148 *C. 1902* [2] 43).

**C<sub>33</sub>-Gruppe.**

- $C_{33}H_{30}O_8$  C 72,8 — H 3,7 — O 23,5 — M. G. 544.  
 1) Tribenzoat d. Verbindung  $C_{13}H_5O_3$  (*Am. 26*, 27).  
 $C_{33}H_{32}O_3$  C 85,0 — H 4,7 — O 10,3 — M. G. 466.  
 1) Acetat d. Tri[2-Oxynaphtyl]methanoxyd. Sm. 235° (*C. 1901* [1] 945; *A. ch.* [5] 28, 189). — II, 1095; \*II, 628.

- $C_{33}H_{25}N_3$  C 85,9 — H 5,0 — N 9,1 — M. G. 461.  
 1) **7,9-Anhydro-7-Phenyloxydhydrat d. 9-[2-Naphtyl]amido-10-Methyl- $\alpha\beta$ -Naphthophenazin** (B-o-Methyl- $\beta$ -Naphtylisorosindulin). HCl,  $HNO_3$  (B. 34, 944).  
 $C_{33}H_{24}O_2$  C 87,6 — H 5,3 — O 7,1 — M. G. 452.  
 1) **Aethyläther d. Tri[2-Oxynaphtyl]methanoxyd.** Sm. 304° (C. 1901 [1] 945). — \*II, 628.  
 $C_{33}H_{29}N_5$  2) **Verbindung** (aus Diphenylcyanamid u. m-Toluidin). Sm. 136°. HCl, (2HCl,  $PtCl_4$ ) (Am. 28, 295 C. 1902 [2] 1323).  
 $C_{33}H_{30}O_{10}$  2) **Sesamin.** Sm. 121° (C. 1901 [2] 1044).  
 $C_{33}H_{31}N_5$  C 79,7 — H 6,2 — N 14,1 — M. G. 497.  
 1) **2-Di[4-Dimethylamidophenyl]methylenamido-1-Phenylazonaphtalin.** Sm. 74° (B. 34, 888).  
 2) **1-Phenylazo-2-Di[4-Dimethylamidophenyl]methylenamidonaphtalin** (Benzolazo- $\beta$ -Naphtylauramin). Sm. 179—180° (B. 34, 3385).  
 $C_{33}H_{32}O_{16}$  C 57,9 — H 4,7 — O 37,4 — M. G. 684.  
 1) **Hexaacetat d. Sequoiagerbstoff** (C. 1901 [2] 312).  
 $C_{33}H_{33}N_5$  C 79,4 — H 6,6 — N 14,0 — M. G. 499.  
 1) **2-Di[4-Dimethylamidophenyl]methylenamido-1-Phenylazonaphtalin.** Sm. 184° (B. 34, 887).  
 2) **4-Di[4-Dimethylamidophenyl]methylenamido-1-Phenylazonaphtalin.** Sm. 234—235° (B. 34, 884).  
 3) **4-[3-Methylamido-4-Methylphenyl]methylenamido-1-Phenylazonaphtalin** (Benzolazo- $\alpha$ -Naphtylleukauramin G) (B. 35, 914 C. 1902 [1] 811).  
 $C_{33}H_{36}S_4$  1) **Tetrabenzyläther d.  $\beta\beta\delta\delta$ -Tetramerkaptopentan.** Sm. 65—66° (B. 35, 501 C. 1902 [1] 637).  
 $C_{33}H_{42}O_{10}$  C 66,2 — H 7,0 — O 26,8 — M. G. 598.  
 1) **Robinin + 8H<sub>2</sub>O.** Sm. 196—197° (C. 1901 [1] 1168; 1901 [2] 121; Soc. 81, 473 C. 1902 [1] 1356).  
 $C_{33}H_{46}O_2$  4) **Benzoat d. Sisosterin** (oder  $C_{34}H_{50}O_2$ ). Sm. 145,5° (H. 34, 466 C. 1902 [1] 744).  
 $C_{33}H_{56}O_5$  C 74,2 — H 10,9 — O 14,9 — M. G. 534.  
 1) **Anhydrid d. Triundekylensäure?** (C. 1901 [1] 612).  
 $C_{33}H_{66}O_2$  3) **Psyllostearylsäure** (Psyllasäure). Sm. 94—95° (H. 32, 357).  
 $C_{33}H_{68}O_2$  \*1) **Psyllostearylalkohol.** Sm. 68—70°? (H. 32, 358).

## — 33 III —

- $C_{33}H_{21}O_3N_3$  3) **Flavindulinderivat** (aus 4-Amido-2-Oxybenzol-1-Carbonsäure u. 3-Chlorflavindulinchlorid) (B. 34, 1088).  
 $C_{33}H_{27}O_2N$  C 84,4 — H 5,8 — O 6,8 — N 3,0 — M. G. 469.  
 1) **Acetylderivat d. 1,3-Diphenyl-2-Benzyl-1,2-Dihydro-4,2- $\beta$ -Naphtisoxazin.** Sm. 190° (G. 31 [2] 177).  
 $C_{33}H_{27}O_3N_3$  C 77,2 — H 5,3 — O 9,3 — N 8,2 — M. G. 513.  
 1) **Verbindung** (aus Pyrogallol u. Chinolin). Sm. 56—57° (B. 35, 1208 C. 1902 [1] 998).  
 $C_{33}H_{29}O_9N_4$  C 63,5 — H 4,5 — O 23,1 — N 8,9 — M. G. 624.  
 1) **Triacetat d. Di[Phenylazo]catechin a.** Sm. 227—229° (Soc. 81, 1170 C. 1902 [2] 199).  
 2) **Triacetat d. Di[Phenylazo]catechin b.** Sm. 253—255° (Soc. 81, 1165 C. 1902 [2] 199).  
 3) **Triacetat d. Di[Phenylazo]catechin c.** Sm. 250—253° (Soc. 81, 1168 C. 1902 [2] 199).

## — 33 IV —

- $C_{33}H_{22}O_3N_3Cl$  1) **Flavindulinchloridderivat** (aus 4-Amido-2-Oxybenzol-1-Carbonsäure u. 3-Chlorflavindulinchlorid) (B. 34, 1089).  
 $C_{33}H_{24}O_6N_6S_2$  1)  **$\alpha\beta$ -Di[6-Phenylazo-5-Oxy-2-Naphtyl]harnstoff-7,7'-Disulfonsäure** (D.R.P. 132511 C. 1902 [2] 170).  
 $C_{33}H_{50}ON_3J_3$  1) **Tri[Jodmethylat] d.  $\alpha$ -Oxytri[4-Dimethylamidophenyl]methan- $\alpha$ -Isoamyläther** (Bl. [3] 13, 570). — \*II, 667.

C<sub>34</sub>-Gruppe.

- C<sub>34</sub>H<sub>24</sub>O      \*1) Phenyl-1-Naphtylpinakolin. Sm. 134° (C. 1902 [2] 1200).  
 C<sub>34</sub>H<sub>24</sub>O<sub>2</sub>    2) Acetat d. Dehydropyrodopnopinakolalkohol. Sm. 200° (C. 1902 [2] 197).  
                  C 72,9 — H 4,3 — O 22,8 — M. G. 560.  
 C<sub>34</sub>H<sub>24</sub>O<sub>8</sub>    1) Tribenzoat d. Excoecarin. Sm. 168—171° (Soc. 81, 213 C. 1902 [1] 532).  
 C<sub>34</sub>H<sub>24</sub>N<sub>4</sub>    6) 5,7- oder 7,9-Anhydro-5,9-Di[Phenylamido]-αβ-Naphtophenazin-7-Phenyl oxyhydrat (B. 34, 1094).  
 C<sub>34</sub>H<sub>28</sub>O<sub>4</sub>    2) bim. Phenylbenzylcrotonlaktone. Sm. 193° (A. 319, 220 C. 1902 [1] 108).  
                  C 86,8 — H 6,4 — O 6,8 — M. G. 470.  
 C<sub>34</sub>H<sub>30</sub>O<sub>2</sub>    1) Acetat d. α-Homodopnopinalkohol. Sm. 152—153° (Bull. Belg. [3] 32, 460). — \*II, 670.  
 C<sub>34</sub>H<sub>30</sub>O<sub>4</sub>    2) Aethyläther d. α-Methylanhydroacetondibenzil. Sm. 250° (Soc. 79, 1036).  
 C<sub>34</sub>H<sub>38</sub>S<sub>4</sub>    1) Tetraenzyläther d. ββεε-Tetramerkaptohexan. Sm. 98—99° (B. 35, 503 C. 1902 [1] 637).  
 C<sub>34</sub>H<sub>43</sub>N<sub>5</sub>    \*1) Di[Di(4-Dimethylamidophenyl)methyl]amin. Sm. 185° (B. 35, 377 C. 1902 [1] 588).  
 C<sub>34</sub>H<sub>40</sub>O<sub>8</sub>    1) sec. Dioktyl ester d. Dibenzoylweinsäure. Fl. (Soc. 81, 1222 C. 1902 [2] 888).  
                  C 66,4 — H 7,5 — O 26,1 — M. G. 614.  
 C<sub>34</sub>H<sub>46</sub>O<sub>10</sub>    1) Bufotalin (C. 1902 [1] 892).  
 C<sub>34</sub>H<sub>50</sub>O<sub>2</sub>    1) Cinnamylat d. Sitosterin (oder C<sub>28</sub>H<sub>52</sub>O<sub>2</sub>). Sm. 158° (H. 34, 467 C. 1902 [1] 744).  
                  C 82,6 — H 10,9 — O 6,5 — M. G. 494.  
 C<sub>34</sub>H<sub>54</sub>O<sub>2</sub>    1) Bufonin. Sm. 152° (C. 1902 [1] 891).  
 C<sub>34</sub>H<sub>66</sub>O<sub>20</sub>    1) C 51,4 — H 8,3 — O 40,3 — M. G. 794.  
                  1) Jalapinsäure (C. 1901 [2] 426).

## — 34 III —

- C<sub>34</sub>H<sub>18</sub>O<sub>2</sub>Br<sub>2</sub> 1) Dibenzoat d. 4,5-Dibrom-2,7-Dinitrofluorescein. Sm. 240—244° (Soc. 81, 897 C. 1902 [2] 214).  
 C<sub>34</sub>H<sub>28</sub>O<sub>2</sub>N<sub>5</sub>    1) C 76,5 — H 4,3 — O 6,0 — N 13,1 — M. G. 533.  
                  1) 6-Aethylamido-5'-Oxydi[αβ-Naphtophenazin]-5,6'-Oxyd? (B. 34, 1059).  
 C<sub>34</sub>H<sub>24</sub>O<sub>9</sub>Cl<sub>2</sub> 1) Acetylderivat d. 5-Chlor-1,3,6-Trioxypentanthren (B. 34, 1556).  
 C<sub>34</sub>H<sub>26</sub>N<sub>4</sub>Cl    1) 7-Chlorphenylat d. 5,9-Di[Phenylamido]-αβ-Naphtophenazin (B. 34, 1093).  
                  C 60,0 — H 4,1 — O 23,5 — N 12,4 — M. G. 680.  
 C<sub>34</sub>H<sub>29</sub>N<sub>9</sub>Cl<sub>2</sub>    1) Tetraacetylderivat d. αβ-Di[Phenylhydrazon]-αβ-Di[3-Nitro-4-Oxyphenyl]äthan. Sm. 239° u. Zers. (A. 321, 30 C. 1902 [1] 928).  
                  1) 4,4-Dichlor-2,3,5-Tri[Phenylhydrazon]-1-Phenylhydrazido-1-Pyridyl-R-Pentamethylen (C. r. 133, 939 C. 1902 [1] 207).  
 C<sub>34</sub>H<sub>30</sub>O<sub>8</sub>N<sub>4</sub>    2) isom. Tetraacetyl-αβ-Di[Phenylhydrazon]-αβ-Di[2-Oxyphenyl]äthan. Sm. 194—195° (B. 35, 3523 C. 1902 [2] 1324).  
                  3) Diäthylester d. 4,4'-Biphenylendi[Azobenzoylessigsäure]. Sm. 187° (B. 35, 926 C. 1902 [1] 807).  
                  C 58,5 — H 4,3 — O 25,2 — N 12,0 — M. G. 698.  
 C<sub>34</sub>H<sub>30</sub>O<sub>11</sub>N<sub>6</sub>    1) Triacetylderivat d. αβ-Di[4-Nitrophenylhydrazon]-αβ-Di[4-Oxy-3-Methoxyphenyl]propan. Sm. 230° (A. 324, 324 C. 1902 [2] 1505).  
                  C 68,3 — H 5,9 — O 18,8 — N 7,0 — M. G. 597.  
 C<sub>34</sub>H<sub>35</sub>O<sub>7</sub>N<sub>3</sub>    1) Verbindung (aus Anisylamid u. Cyanessigsäureäthylester). Sm. 174° u. Zers. (C. 1902 [2] 741).  
 C<sub>34</sub>H<sub>36</sub>O<sub>8</sub>N<sub>2</sub>    \*1) Pseudomorphin (C. r. 134, 1361 C. 1902 [2] 218).  
 C<sub>34</sub>H<sub>36</sub>O<sub>7</sub>N<sub>4</sub>    1) C 60,7 — H 5,9 — O 18,3 — N 9,1 — M. G. 612.  
                  1) Bilirubin (Am. 26, 86).  
 C<sub>34</sub>H<sub>38</sub>O<sub>2</sub>N<sub>4</sub>    C 76,4 — H 7,1 — O 6,0 — N 10,5 — M. G. 534.

- $C_{31}H_{35}O_2N_4$  1)  $\alpha\beta$ -Di[ $\beta$ -Phenyl- $\alpha$ -2,4,5-Trimethylphenylureido]äthan. Sm. 191° (Soc. 79, 260).
- $C_{31}H_{35}O_3S_1$  1)  $\beta\beta\epsilon\epsilon$ -Tetrabenzylsulfonhexan. Sm. 222—227° u. Zers. (B. 35, 503 C. 1902 [1] 637).
- $C_{31}H_{41}ON_1$  C 78,2 — H 8,0 — O 3,1 — N 10,7 — M. G. 522.
- 1) Aether d.  $\alpha$ -Oxydi[4-Dimethylamidophenyl]methan. Sm. 195° (200—201°) (C. 1902 [1] 471; B. 35, 361 C. 1902 [1] 588).
- $C_{31}H_{41}O_2N_4$  C 75,8 — H 7,8 — O 5,9 — N 10,4 — M. G. 538.
- 1)  $\alpha\beta$ -Dioxy- $\alpha\beta$ -Di[4-Dimethylamidophenyl]äthan. Sm. 210—211° (C. 1902 [2] 1508).
- $C_{31}H_{41}N_4S$  1) Di[Di(4-Dimethylamidophenyl)methyl]sulfid. Sm. 172° (B. 35, 375 C. 1902 [1] 588).
- $C_{31}H_{41}N_4S_2$  1) Di[Di(4-Dimethylamidophenyl)methyl]disulfid. Sm. 207° (B. 35, 379 C. 1902 [1] 589).

## — 34 IV —

- $C_{31}H_{16}O_{11}N_2Br_2$  1) Dibenzoat d. 4,5-Dibrom-2,7-Dinitrofluorescein. Sm. 301° u. Zers. (Soc. 81, 899 C. 1902 [2] 214, 450).
- 2) Dibenzoat d. 2,7-Dibrom-4,5-Dinitrofluorescein. Sm. 315° u. Zers. (Soc. 81, 896 C. 1902 [2] 213).
- $C_{31}H_{20}O_6N_1Br_4$  1) Tetracetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dibrom-4-Oxyphenyl]äthan. Sm. 161—162° (A. 321, 10 C. 1902 [1] 927).
- $C_{31}H_{26}O_6N_4J_4$  1) Tetraacetylderivat d.  $\alpha\beta$ -Di[Phenylhydrazon]- $\alpha\beta$ -Di[3,5-Dijod-4-Oxyphenyl]äthan. Sm. 196° (A. 321, 20 C. 1902 [1] 927).
- $C_{31}H_{20}O_9N_2S_2$  1) p-Ditylirhodamindisulfonsäure (J. pr. [2] 65, 63 C. 1902 [1] 578).
- $C_{34}H_{29}O_8N_1Br_2$  1) Tetracetylderivat d.  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 233° (A. 324, 319 C. 1902 [2] 1505).
- $C_{31}H_{30}O_7N_1Br_2$  1) Triacetylderivat d.  $\alpha\beta$ -Di[4-Bromphenylhydrazon]- $\alpha\beta$ -Di[4-Oxy-3-Methoxyphenyl]äthan. Sm. 201° (A. 324, 321 C. 1902 [2] 1505).
- $C_{31}H_{32}O_1N_3Cl_2$  1) 3,8-Dichlor-1,4,6,9-Tetraketo-2,7-Diisopropyl-5,10-[2,5-Dimethylphenyl]-1,4,5,6,9,10-Hexahydrophenazin. Sm. 236° (B. 35, 1508 C. 1902 [1] 1212).
- $C_{31}H_{32}O_1N_3Br_2$  1) 3,8-Dibrom-1,4,6,9-Tetraketo-2,7-Diisopropyl-5,10-[2,5-Dimethylphenyl]-1,4,5,6,9,10-Hexahydrophenazin. \* Sm. 215° (B. 35, 1508 C. 1902 [1] 1212).
- $C_{31}H_{32}O_2N_1Fe$  1) Hämeïn (aus Acethämin) (B. 35, 2952 C. 1902 [2] 1052).
- $C_{31}H_{34}O_1N_1S_2$  1) 3,3'-Dimethyläther-S-Diäthyläther d. 4,4'-Di[Benzoylimido-merkaptomethylamido]-3,3'-Dioxybiphenyl (Dimethyloxydiphenylendibenzoylthioläthylpseudothiarnstoff). Sm. 170—171° (Am. 26, 416).

**C<sub>35</sub>-Gruppe.**

- $C_{35}H_{24}O_5$  C 80,1 — H 4,6 — O 15,3 — M. G. 524.
- 1) Dibenzoat d. 4,7-Dioxy-2,4-Diphenyl-1,4-Benzpyran. Zers. bei 110° (B. 34, 2379).
- $C_{35}H_{25}O_2$  \* 1) Benzamaron. Sm. 217—218° (B. 34, 3907 C. 1902 [1] 200).
- $C_{35}H_{25}O_{11}$  2) Methylester d. Dibenzoyletetrarsäure. Sm. 183—184° (Ar. 240, 530 C. 1902 [2] 1329).
- $C_{35}H_{33}N_5$  2) 5-Amido-3,6-Di[4-Methylphenylamido]-1,4-Di[4-Methylphenylimido]-2-Methyl-1,4-Dihydrobenzol. Sm. 250—251°. HCl (B. 34, 1281).
- $C_{35}H_{36}O_{14}$  C 61,8 — H 5,3 — O 32,9 — M. G. 680.
- 1) Hexaacetat d. Benzaldivanillin. Sm. 159,5—162,5° (B. 34, 3883 C. 1902 [1] 118).
- $C_{35}H_{38}O_{12}$  C 64,6 — H 5,8 — O 29,6 — M. G. 650.
- 1) Filixsäure (oder  $C_{14}H_{16}O_5$ ). Sm. 184—185° (A. 318, 293).
- $C_{35}H_{34}O_{20}$  C 52,9 — H 6,8 — O 40,3 — M. G. 794.
- 1) Verbindung (aus  $\alpha$ -Maneemisäure) (Ar. 240, 302 C. 1902 [2] 135).

## — 35 III —

- $C_{35}H_{24}O_3N_4$  C 76,6 — H 4,4 — O 8,8 — N 10,2 — M. G. 548.  
 1)  $\gamma$ -Keto- $\alpha$ -Di[2-Oxy-1-Naphtylazo]propen (B. 34, 3529).  
 $C_{35}H_{25}O_2N_3$  C 80,9 — H 4,8 — O 6,2 — N 8,1 — M. G. 519.  
 1) Verbindung (aus d. Methyläther d. 2,3,4-Triamido-1-Oxybenzol u. Benzil). Sm. 258—259° (Soc. 81, 994 C. 1902 [2] 697).  
 $C_{35}H_{31}O_6N_5$  C 68,1 — H 5,0 — O 15,6 — N 11,3 — M. G. 617.  
 1) Di[Phenylhydrazon] d. 3-Nitrobenzylidendivanillin. Sm. 226° (B. 35, 1964 C. 1902 [2] 116).  
 $C_{35}H_{35}O_{16}N$  C 57,9 — H 4,8 — O 35,3 — N 1,9 — M. G. 725.  
 1) Hexaacetat d. 3-Nitrobenzylidendivanillin. Sm. 154—155° (B. 35, 1963 C. 1902 [2] 116).  
 2) Hexaacetat d. 4-Nitrobenzylidendivanillin. Sm. 205,5—207° (B. 35, 1962 C. 1902 [2] 116).  
 $C_{35}H_{43}N_3S_2$  1) Di[4-Dimethylamidophenyl]methylester d. Di[4-Dimethylamidophenyl]methyramidodithioameisensäure. Sm. 168° (B. 35, 381 C. 1902 [1] 589).  
 $C_{35}H_{14}ON_6$  C 74,5 — H 7,8 — O 2,8 — N 14,9 — M. G. 564.  
 1) s-Di[Di(4-Dimethylamidophenyl)methyl]harnstoff (Carbonyldileukauramin). Sm. 250—251° (B. 35, 375 C. 1902 [1] 588).  
 $C_{35}H_{72}O_9N_{18}$  C 47,3 — H 8,1 — O 16,2 — N 28,4 — M. G. 888.  
 1) Protamin. 4H<sub>2</sub>SO<sub>4</sub> (H. 32, 199).

## — 35 IV —

- $C_{35}H_{27}ON_2Br$  1) 3-[4-Bromphenyl]hydrazon-1-Oxy-1,2,4,5-Tetraphenyl-2,3-Dihydro-R-Penten. Sm. 168—169° (Soc. 79, 1260).  
 $C_{35}H_{34}O_4N_4Fe$  1) Hämeïn (aus  $\beta$ -Hämin) (B. 35, 2592 C. 1902 [2] 1052).

## — 35 V —

- $C_{35}H_{35}O_4N_4ClFe$  \*1)  $\beta$ -Hämin (B. 35, 2951 C. 1902 [2] 1052).

C<sub>36</sub>-Gruppe.

- $C_{36}H_{32}O_9$  \*2) Tribenzoat d. Luteolin. Sm. 200—201° (219°) (B. 32, 1186; 34, 3578).  
 $C_{36}H_{24}O_5$  C 80,6 — H 4,5 — O 14,9 — M. G. 536.  
 1) Dibenzoat d. 7,8-Dioxy-2-Phenyl-4-Benzyliden-1,4-Benzpyran. Sm. 178° u. Zers. (B. 35, 1802 C. 1902 [2] 117).  
 $C_{36}H_{25}N_5$  C 82,0 — H 4,7 — N 13,3 — M. G. 527.  
 1) 2-Phenylamido-7,14-Diphenylfluorindin. HCl (B. 34, 1222).  
 $C_{36}H_{26}O_4$  C 82,8 — H 5,0 — O 12,2 — M. G. 522.  
 1) 1,2-Phenyleneester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 169° (G. 32 [1] 184 C. 1902 [1] 1054).  
 2) 1,3-Phenyleneester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 162° (G. 32 [1] 183 C. 1902 [1] 1054).  
 3) 1,4-Phenyleneester d.  $\alpha\beta$ -Diphenylakrylsäure. Sm. 126—127° (G. 32 [1] 184 C. 1902 [1] 1054).  
 $C_{36}H_{28}O_{10}$  2) Oxytriscarminonmethyldithiocarbonsäure (B. 34, 2158).  
 $C_{36}H_{28}O_3$  C 87,8 — H 5,7 — O 6,5 — M. G. 492.  
 1) Verbindung (aus  $\alpha$ -Methylanhydroacetonbenzil). Sm. 230° u. Zers. (Soc. 79, 1031).  
 $C_{36}H_{28}N_4$  C 83,7 — H 5,4 — N 10,8 — M. G. 516.  
 1) 5,7- oder 7,9-Anhydro d. 5,9-Di[4-Methylphenylamido]- $\alpha\beta$ -Naphtophenazin (B. 34, 1094).  
 $C_{36}H_{12}S_4$  1) Tetrabenzyläther d.  $\gamma\gamma\zeta\zeta$ -Tetramerkapto- $\beta$ -Methylheptan. Fl. (B. 35, 505 C. 1902 [1] 637).  
 $C_{36}H_{15}O_9$  C 69,2 — H 7,7 — O 23,1 — M. G. 624.  
 1) Parasaron. Sm. 203° (B. 35, 3193 C. 1902 [2] 1255).  
 $C_{36}H_{50}O_3$  C 84,0 — H 9,7 — O 6,2 — M. G. 514.  
 1) Cinnamylat d. Cholesterin. Sm. 149° (H. 22, 403; C. 1899 [1] 369).  
 — \*II, 517.



- $C_{36}H_{32}O_2$  \*2) bim.  $\beta$ -Keto- $\alpha$ -Benzylidenundekan. Sm. 116°; Sd. 310—340°<sub>35</sub> (Bl. [3] 25, 269).  
 $C_{36}H_{32}O_{31}$  \*5) Laktosin (Bl. [3] 25, 142).  
 9) Grenzdextrin II (C. 1902 [2] 984; A. 324, 222 C. 1902 [2] 1248).  
 $C_{36}H_{70}O_7$  3) Verbindung (aus d. Glycerin d. Methylallyltertiärbutylcarbinol). Sd. 210° (C. 1901 [1] 669).

## — 36 III —

- $C_{36}H_{21}N_5Cl_4$  1) Fluorindin (aus 5,4'-Dichlor-2-Amidodiphenylamin). 2HCl (B. 35, 958 C. 1902 [1] 805).  
 $C_{36}H_{24}N_5Cl$  1) Phenanthrophenylrosindulinechlorid (B. 34, 1213).  
 $C_{36}H_{26}O_4N_2$  C 78,5 — H 4,7 — O 11,6 — N 5,1 — M. G. 550.  
 1) Di[4-Phenoxyphenyläther] d. 4,4'-Dioxyazoxybenzol. Sm. 210° (B. 34, 3771 C. 1902 [1] 36).  
 $C_{36}H_{26}O_5N_2$  C 76,3 — H 4,6 — O 14,1 — N 4,9 — M. G. 566.  
 1) Di[4-Phenoxyphenyläther] d. 4,4'-Dioxyazoxybenzol. Sm. 183° (B. 34, 3770 C. 1902 [1] 36).  
 $C_{36}H_{29}N_4Cl$  1) 7-Chlorphenylat d. 5,9-Di[4-Methylphenylamido]- $\alpha\beta$ -Naphtophenazin (B. 34, 1094).  
 $C_{36}H_{30}OSi_2$  \*1) Di[Triphenylsilyl]äther. Sm. 222° (Soc. 79, 455).  
 $C_{36}H_{34}O_6N_4$  C 69,9 — H 5,5 — O 15,5 — N 9,1 — M. G. 618.  
 1) Tetracetylderivat d.  $\alpha\beta$ -Di[4-Methylphenylhydrazon]- $\alpha\beta$ -Di[2-Oxyphenyl]äthan. Sm. 228° (A. 324, 327 C. 1902 [2] 1505).  
 $C_{36}H_{34}O_6S_3$  1)  $\alpha\alpha\gamma$ -Tri[Benzylsulfon]- $\alpha\gamma$ -Diphenylpropan. Sm. 217° (B. 35, 809 C. 1902 [1] 756).  
 $C_{36}H_{42}O_5S_4$  1)  $\gamma\gamma\zeta$ -Tetrabenzylsulfon- $\beta$ -Methylheptan. Sm. 202—203° (B. 35, 505 C. 1902 [1] 637).  
 $C_{36}H_{53}N_4S_2$  1) Verbindung (aus Benzaldehyd, Diamylamin u. Rubeanwasserstoff). Sm. 160° (C. 1899 [2] 1025).

## — 36 IV —

- $C_{36}H_{31}O_6N_5S_3$  1) Verbindung (aus d. Verb.  $C_{36}H_{31}O_6N_5S_7$ ) (C. 1901 [2] 566).  
 $C_{36}H_{31}O_6N_6S_7$  1) Verbindung (aus 4-Amido-1-Oxybenzol, Oxyazobenzol u. Schwefel) (C. 1901 [2] 566).  
 $C_{36}H_{32}O_6N_6S_2$  1) 4,4'-Di[1-Amido-2-Naphtylazo]-3,3'-Diäthylbiphenyl-4<sup>4</sup>,4<sup>4</sup>-Disulfonsäure. Na<sub>2</sub> (J. pr. [2] 66, 171 C. 1902 [2] 937).

**C<sub>37</sub>-Gruppe.**

- $C_{37}H_{30}N_4$  C 83,8 — H 5,6 — N 10,6 — M. G. 530.  
 1) 5,7- oder 7,9-Anhydro-5,9-Di[4-Methylphenylamido]- $\alpha\beta$ -Naphtophenazin-7-[4-Methylphenyloxydhydrat] (B. 34, 1105).  
 $C_{37}H_{50}O_{10}$  C 67,9 — H 7,6 — O 24,5 — M. G. 654.  
 1) Confluentin. Sm. 147—148° (A. 306, 307; A. 321, 37 C. 1902 [1] 940).  
 $C_{37}H_{54}O_2$  \*1) Benzoat d.  $\alpha$ -Amyrin. Sm. 191—192° (Ar. 240, 307 C. 1902 [2] 135).  
 \*2) Benzoat d.  $\beta$ -Amyrin. Sm. 228—229° (Ar. 240, 307 C. 1902 [2] 135).  
 $C_{37}H_{56}O_4$  C 78,6 — H 9,9 — O 11,5 — M. G. 564.  
 1)  $\alpha$ -Manelemisäure. Sm. 215°. K, Ag (Ar. 240, 299 C. 1902 [2] 135).  
 $C_{37}H_{60}S_4$  1) Tetraamyläther d.  $\alpha\gamma\gamma\zeta$ -Tetramerkapto- $\alpha\epsilon$ -Diphenylpentan. Fl. (B. 35, 813 C. 1902 [1] 756).  
 $C_{37}H_{74}O_2$  C 80,7 — H 13,5 — O 5,8 — M. G. 550.  
 1) Pisangwachs. Sm. 79—81° (R. 20, 66).

## — 37 III —

- $C_{37}H_{29}O_6N_4$  C 71,1 — H 4,5 — O 15,4 — N 9,0 — M. G. 624.  
 1) Dimethylester d. 4,4'-Di[2-Oxy-1-Naphtylazo]diphenylmethan-3,3'-Dicarbonsäure (J. pr. [2] 63, 252).  
 $C_{37}H_{31}N_4Cl$  1) 7-[Chlor-4-Methylphenylat] d. 5,9-Di[4-Methylphenylamido]- $\alpha\beta$ -Naphtophenazin (B. 34, 1105).

- $C_{37}H_{37}O_{15}N_3$  C 58,2 — H 4,8 — O 31,4 — N 5,5 — M. G. 763.  
 1) Hexaacetat d. Triacetylhexaoxyleukanilin. Sm. 172—173° (B. 34, 1036).  
 $C_{37}H_{33}O_4N_2$  C 77,3 — H 6,6 — O 11,1 — N 4,9 — M. G. 574.  
 1) Diäthylester d.  $\alpha$ -Phenyl- $\alpha$ -Di[2,5-Dimethyl-1-Phenyl-4-Pyrryl]-methan-3,3'-Dicarbonsäure. Sm. 160° (B. 35, 1653 C. 1902 [1] 1358).  
 $C_{37}H_{40}O_4N_4$  C 73,4 — H 6,6 — O 10,6 — N 9,3 — M. G. 604.  
 1) Verbindung (aus Albaspidin u. Phenylhydrazin). Sm. 242° (A. 318, 303).  
 $C_{37}H_{32}O_{10}N$  \* 1) Taxin. Sm. 82° u. Zers. HCl, (HCl, AuCl<sub>3</sub>), + AuCl<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> (Soc. 81, 874 C. 1902 [2] 219, 458).

## — 37 IV —

- $C_{37}H_{26}O_2N_4Br_2$  1)  $\alpha\alpha$ -Di[5-Keto-1-(4-Bromphenyl)-3-Phenyl-4-Pyrazolyl]- $\alpha$ -Phenylmethan. Sm. 290° u. Zers. (A. 323, 109 C. 1902 [2] 785).  
 $C_{37}H_{31}O_{10}N_3S_3$  1)  $\alpha$ -Oxytri[4-Phenylamidophenyl]methan-P-Trisulfonsäure (Helvetiablau) (D.R.P. 73092). — \*II, 668.

C<sub>38</sub>-Gruppe.

- $C_{38}H_{30}$  C 93,8 — H 6,2 — M. G. 486.  
 1) Hexaphenyläthan. Sm. 231° (corr.) (B. 35, 2878 C. 1902 [2] 1115).  
 $C_{38}H_{66}$  C 87,4 — H 12,6 — M. G. 522.  
 1) Kohlenwasserstoff (aus Amylen). Sd. 190—192°<sub>30</sub> (A. 324, 32 C. 1902 [2] 896).

## — 38 II —

- $C_{38}H_{30}O_2$  \* 1) Triphenylmethylsuperoxyd. Sm. 185° (B. 34, 2731; B. 35, 2879 C. 1902 [2] 1115).  
 $C_{38}H_{30}O_3$  C 85,4 — H 5,6 — O 9,0 — M. G. 534.  
 1) Di[4-Oxytriphenylmethyl]äther. Sm. 138—139° (B. 34, 3075).  
 $C_{38}H_{30}O_{16}$  C 62,8 — H 4,1 — O 33,1 — M. G. 726.  
 1) Pyrogallolsalicylein + xH<sub>2</sub>O. Sm. 102° (145° wasserfrei) (D.R.P. 86319). — \*II, 889.  
 $C_{38}H_{36}N_6$  C 79,2 — H 6,2 — N 14,6 — M. G. 576.  
 1) 4,4'-Di[2-Aethylamido-1-Naphtylazo]-3,3'-Dimethylbiphenyl. Zers. bei 150° (C. r. 133, 40).

## — 38 III —

- $C_{38}H_{24}O_{12}N_6$  C 60,3 — H 3,2 — O 25,4 — N 11,1 — M. G. 756.  
 1) Hexanitrohexaphenyläthan. Sm. 265° (B. 35, 2881 C. 1902 [2] 1116).  
 $C_{38}H_{28}O_2N_4$  C 79,7 — H 4,9 — O 5,6 — N 9,8 — M. G. 572.  
 1) 4,4'-Di[Phenylbenzoylamido]azobenzol. Sm. 172° (C. 1901 [1] 105).  
 $C_{38}H_{28}O_3N_4$  2) 4,4'-Di[Phenylbenzoylamido]azoxybenzol. Sm. 178° (C. 1901 [1] 105).  
 $C_{38}H_{30}O_4N_6$  C 71,9 — H 4,7 — O 10,1 — N 13,2 — M. G. 634.  
 1) Aethylester d. 5-Keto-1,3-Diphenyl-4,5-Dihydropyrazol-4-[4,4'-Biphenylenazobenzoylessigsäure]. Sm. 215° (B. 35, 927 C. 1902 [1] 807).  
 $C_{38}H_{32}O_2N$  1) Verbindung (aus Triphenylcarbinol u. Hydroxylamin). Sm. 182—184° (B. 35, 3017 C. 1902 [2] 1112).  
 $C_{38}H_{32}O_2N_4$  C 79,2 — H 5,5 — O 5,5 — N 9,7 — M. G. 576.  
 1) 1,4,5,8-Tetra[Phenylamido]-9,10-Anthrachinon (D.R.P. 127458 C. 1902 [1] 507).  
 $C_{38}H_{31}O_3N_2$  C 80,6 — H 6,0 — O 8,5 — N 4,9 — M. G. 566.  
 $C_{38}H_{31}O_3N_2$  1) Phtalein d. 3-Aethylbenzylamido-1-Oxybenzol (J. pr. [2] 63, 425).

## — 38 IV —

- $C_{38}H_{40}O_6N_6S_2$  1) Hydrazoverbindung (aus 3,3'-Dimethylbiphenyl-4,4'-Didiazosulfonsäure u. 2-Aethylamidonaphtalin) (C. r. 133, 39).  
 $C_{38}H_{35}O_{10}NJ$  1) Jodmethylat d. Taxin. Sm. 121° (Soc. 81, 882 C. 1902 [2] 219, 458).

**C<sub>39</sub>-Gruppe.**C<sub>39</sub>H<sub>30</sub> C 94,0 — H 6,0 — M. G. 498.

- 1) Tetraphenylbiphenylenpropan. Sm. 205° (B. 29, 737). — \*II, 135.

— 39 II —

C<sub>39</sub>H<sub>33</sub>O<sub>16</sub> C 61,9 — H 4,2 — O 33,9 — M. G. 756.

- 1) Trimethylester d. Oxytriscarminonmethylläthercarbonsäure. Zers. bei 275—276° (B. 34, 2158).

C<sub>39</sub>H<sub>32</sub>O<sub>17</sub> C 60,6 — H 4,1 — O 35,2 — M. G. 772.

- 1) Trimethylester d. Dioxyltriscarminoncarbonsäure. Zers. bei 175° (B. 34, 2155).

C<sub>39</sub>H<sub>55</sub>O<sub>5</sub> C 77,2 — H 9,6 — 13,2 — M. G. 606.

- 1) Acetyl-
- $\alpha$
- Manelemisäure. Sm. 205° (Ar. 240, 301 C. 1902 [2] 135).

C<sub>39</sub>H<sub>60</sub>O<sub>6</sub> C 75,0 — H 9,6 — O 15,4 — M. G. 624.

- 1) Pseudoagaricinsäure. Sm. 258° (Bl. [3] 25, 636).

— 39 IV —

C<sub>36</sub>H<sub>30</sub>O<sub>3</sub>N<sub>3</sub>As 1) Tri[*p*-Benzoylamidophenyl]arsin. Sm. 271° (A. 321, 184 C. 1902 [2] 45).**C<sub>40</sub>—C<sub>867</sub>-Gruppen.**C<sub>40</sub>H<sub>25</sub>O<sub>2</sub> C 88,9 — H 5,2 — O 5,9 — M. G. 540.

- 1) Tetra[Dimethylamido]bisphenylanthranol. Sm. 275°. + Tolnol (Bl. [3] 25, 319). — \*II, 678.

C<sub>40</sub>H<sub>50</sub>N<sub>8</sub> C 77,2 — H 4,8 — N 18,0 — M. G. 622.

- 1) 4,4'-Di[2,4-Dimethylphenyl-1,2,4-Triazolyl-(5-amido)]biphenyl. Sm. noch nicht bei 265° (Am. 26, 416).

C<sub>40</sub>H<sub>45</sub>O<sub>15</sub> C 62,5 — H 6,2 — O 31,2 — M. G. 768.

- 1) Tetrabutyrat d. Pseudoonospin. Sm. 116° (M. 23, 162 C. 1902 [1] 1104).

C<sub>40</sub>H<sub>48</sub>N<sub>6</sub> C 78,4 — H 7,8 — N 13,7 — M. G. 612.

- 1) 1,3-Di[Di(4-Dimethylamidophenyl)methylamido]benzol. Sm. 247 bis 248° (B. 35, 370 C. 1902 [1] 588).

- 2) 1,4-Di[Di(4-Dimethylamidophenyl)methylamido]benzol. Sm. 225° (B. 35, 369 C. 1902 [1] 588).

C<sub>40</sub>H<sub>52</sub>O<sub>10</sub> C 69,3 — H 7,5 — O 23,1 — M. G. 692.

- 1) Pikrolichenin. Sm. 178° (A. 321, 38 C. 1902 [1] 940).

C<sub>40</sub>H<sub>52</sub>N<sub>4</sub> C 81,6 — H 8,8 — N 9,5 — M. G. 588.

- 1) bim. 2-Aethyl-1,3-Di[4-Methylphenyl]hexahydro-1,3-Diazin. Sm. 268° (B. 34, 1512).

C<sub>40</sub>H<sub>72</sub>O<sub>2</sub> C 82,2 — H 12,3 — O 5,5 — M. G. 584.

- 1) Benzoat d. Phyllostearylalkohol. Sm. 68—69° (H. 32, 358).

C<sub>40</sub>H<sub>71</sub>O<sub>9</sub> C 68,8 — H 10,6 — O 20,6 — M. G. 698.

- 1) Diacetat d. Verb. C
- <sub>36</sub>
- H
- <sub>70</sub>
- O
- <sub>7</sub>
- (C. 1901 [1] 669).

C<sub>40</sub>H<sub>36</sub>O<sub>8</sub>Br<sub>4</sub> 1)  $\alpha, \alpha'$ -Aether d. *p*-Dibrom- $\alpha$ -Oxy-4-Methoxyltriphenylmethan. Sm. 133° (B. 35, 3139 C. 1902 [2] 1210).C<sub>40</sub>H<sub>56</sub>O<sub>18</sub>N<sub>6</sub> C 52,9 — H 6,2 — O 31,7 — N 9,2 — M. G. 908.

- 1) Polymyrcennitrosit. Zers. bei 163° (B. 35, 3264 C. 1902 [2] 1259).

C<sub>40</sub>H<sub>93</sub>O<sub>24</sub>N<sub>10</sub> C 45,0 — H 5,8 — O 36,0 — N 13,1 — M. G. 1066.

- 1) Verbindung (aus Kautschuk). Zers. bei 135° (B. 34, 2991).

C<sub>40</sub>H<sub>76</sub>O<sub>4</sub>Si \* 1) Tetramethylester d. Kieselensäure (C. 1902 [2] 1235).C<sub>40</sub>H<sub>80</sub>O<sub>9</sub>N C 66,4 — H 11,8 — O 19,9 — N 1,9 — M. G. 723.

- 1) Dipalmityllecithin. (2HCl, PtCl
- <sub>4</sub>
- ) (H. 36, 531 C. 1902 [2] 1420).

C<sub>40</sub>H<sub>42</sub>O<sub>4</sub>N<sub>4</sub>Br<sub>2</sub> 1) Verbindung (aus Aethylidenanilin vom Sm. 126°). Sm. 156° (A. 318, 83).C<sub>41</sub>H<sub>37</sub>O<sub>10</sub>N<sub>3</sub> C 68,2 — H 3,7 — O 22,2 — N 5,8 — M. G. 721.

- 1) Tri[Phenylamidoformiat] d. Gallein (Am. 26, 132).

- $C_{41}H_{33}O_{16}N$  \*1) Pentabenzoylchitosamin (*B.* 35, 177).
- $C_{41}H_{46}O_5N_4$  \*1) Carbonat d. Chinin. Sm. 185,5° (189°) (*C.* 1901 [2] 865; D.R.P. 134307 *C.* 1902 [2] 866; D.R.P. 134308 *C.* 1902 [2] 867; *C.* 1902 [2] 1387).  
C 80,8 — H 11,6 — O 5,3 — N 2,3 — M. G. 609.
- $C_{41}H_{71}O_2N$  1) Solanidin. Sm. 205° (*C.* 1902 [2] 804).
- $C_{41}H_{44}O_{16}N_{10}Cr$  1) Farbstoff (aus Diphenylcarbazid) (*Bl.* [3] 25, 759).  
 $C_{43}H_{24}O_2$  C 90,0 — H 4,3 — O 5,7 — M. G. 560.
- $C_{42}H_{24}O_6$  1) Didinaphtoxanthilen. Zers. bei 270° (*A.* 322, 349 *C.* 1902 [2] 430).  
C 80,8 — H 3,8 — O 15,4 — M. G. 624.
- $C_{42}H_{26}O_2$  1) Dibenzat d. Dioxidiphenanthronen. Sm. 205—206° (*A.* 322, 172 *C.* 1902 [2] 283).  
C 89,7 — H 4,6 — O 5,7 — M. G. 562.
- $C_{42}H_{26}O_3$  1) Bisdinaphthoxanthan. Sm. 300° (*Bl.* [3] 27, 527 *C.* 1902 [2] 125).  
C 87,2 — H 4,5 — O 8,3 — M. G. 578.
- $C_{42}H_{30}N_6$  1) Bisdinaphthoxanthenoxyd. Sm. 250° (*C. r.* 133, 124 *C.* 1902 [1] 124).  
C 81,6 — H 4,8 — N 13,6 — M. G. 618.
- $C_{42}H_{34}O_5$  1) 2,9-Di[Phenylamido]-7,14-Diphenylfluorindin. HCl (*B.* 34, 1221).  
C 81,6 — H 5,5 — O 12,9 — M. G. 618.
- $C_{42}H_{36}O_{28}$  1) Diacetat d. Di[4-Oxytriphenylmethyl]äther. Sm. 136—137° (*B.* 34, 3077).  
C 50,0 — H 5,6 — O 44,4 — M. G. 1008.
- $C_{42}H_{66}O_2$  1) Dodekaacetat d. Manninotriose. Sm. bei 105° (*Bl.* [3] 27, 958 *C.* 1902 [2] 1178).  
C 83,7 — H 11,0 — O 5,3 — M. G. 602.
- $C_{43}H_7O_2$  1) Candenphorben. Sm. 117—118° (*G.* 32 [2] 172 *C.* 1902 [2] 1330).
- $C_{43}H_{24}O_2Cl_2$  3) Palmitat d. Sistosterin (oder  $C_{43}H_{76}O_2$ ). Sm. 90° (*H.* 34, 469 *C.* 1902 [1] 744).
- $C_{43}H_{26}O_8S_2$  1) Verbindung (aus Chloral- $\beta$ -Dinaphthylenoxyd). HCl + 4H<sub>2</sub>O (*A.* 322, 347 *C.* 1902 [2] 430).
- $C_{43}H_{27}O_2N$  1) Didinaphthoxyanthylidisulfonsäure. K<sub>2</sub> + 10H<sub>2</sub>O (*A.* 322, 349 *C.* 1902 [2] 430).  
C 87,3 — H 4,7 — O 5,5 — N 2,4 — M. G. 577.
- $C_{43}H_{27}O_4P$  1) Bisdinaphthoxanthanamin (oder  $C_{27}H_{13}ON$ ). Sm. 230° u. Zers. (235°) (*C. r.* 133, 102, 639; *A. ch.* [5] 28, 184; *Bl.* [3] 27, 523 *C.* 1902 [2] 125). — II, 1105.
- $C_{43}H_{28}O_6N_2$  1) Phosphat d. 3-Oxyphenanthren. Sm. 180—182° (*A.* 321, 293 *C.* 1902 [2] 58).  
C 76,8 — H 4,3 — O 14,6 — N 4,3 — M. G. 656.
- $C_{43}H_{30}O_5Br_4$  1) Phtalylamidobenzophenonpinakon. Sm. 140° (*C.* 1902 [2] 1200).
- $C_{43}H_{30}O_6N_6$  1) Diacetat d. Di[ $\beta$ -Dibrom-4-Oxytriphenylmethyl]äther. Sm. 171° (*B.* 34, 3078).  
C 70,6 — H 4,2 — O 13,4 — N 11,8 — M. G. 714.
- $C_{43}H_{36}N_3As$  1) Verbindung (aus Anilin). Sm. 251° (*C. r.* 135, 743 *C.* 1902 [2] 1447).
- $C_{43}H_{40}O_2N_4$  1) Tri[ $\beta$ -Benzylamido-4-Methylphenyl]arsin (*A.* 321, 215 *C.* 1902 [2] 47).  
C 79,7 — H 6,3 — O 5,1 — N 8,8 — M. G. 632.
- $C_{43}H_{40}O_3As_2$  1) 1,4,5,8-Tetra[4-Methylphenylamido]-9,10-Anthrachinon (D.R.P. 127458 *C.* 1902 [1] 507).
- $C_{43}H_{75}O_{12}N$  1) Anhydrid d. Methyltriphenylarsenketobetaïn. Sm. 194° (*A.* 321, 177 *C.* 1902 [2] 45).  
C 64,2 — H 9,6 — O 24,4 — N 1,8 — M. G. 785.
- $C_{43}H_{43}N_7ClP_2$  1) Solanin. Sm. 235° (*C.* 1902 [2] 804).
- $C_{43}H_{68}O_{30}N_{12}P_4$  1) Verbindung (aus Anilin u. Phosphorpentachlorid). Sm. 192—194° + 2C<sub>2</sub>H<sub>5</sub>O (*Am.* 27, 448 *C.* 1902 [2] 355).
- $C_{43}H_{83}O_{13}NP_4$  1) Triticonukleinsäure (*H.* 36, 87 *C.* 1902 [2] 1136).
- $C_{43}H_{83}O_{13}NP_4$  1) Kephalin (*H.* 36, 135 *C.* 1902 [2] 1139).
- $C_{43}H_{83}O_{13}NP_4$  \*1) Lecithin (*G.* 31 [2] 47; *H.* 36, 137 *C.* 1902 [2] 1139).
- $C_{43}H_{83}O_{10}$  \*2) Tetrabenzoat d. Luteolin. Sm. 200,5° (*B.* 34, 3578).
- $C_{43}H_{30}O_{10}$  C 73,1 — H 4,2 — O 22,7 — M. G. 706.
- $C_{43}H_{44}O_{20}$  1) Tetrabenzoat d. Katechin b. Sm. 171—172° (*Soe.* 81, 1166 *C.* 1902 [2] 199).  
C 58,9 — H 4,6 — O 36,5 — M. G. 876.
- 1) Methylenderivat d. Sequoiagerbstoff (*C.* 1901 [2] 313).

- $C_{44}H_{30}O_4$  C 84,9 — H 4,8 — O 10,3 — M. G. 622.  
1) Verbindung (aus d. Verb.  $C_{42}H_{24}O_3Cl_2$ ). Sm. 158° (A. 322, 348 C. 1902 [2] 430).
- $C_{44}H_{42}O_{10}$  C 72,3 — H 5,7 — O 21,9 — M. G. 730.  
1) Tribenzoat d.  $\alpha$ -Kosin. Sm. 174—175° (B. 27 [2] 311; Ar. 239, 675 C. 1902 [1] 268).
- $C_{44}H_{60}O_5$  C 79,0 — H 9,0 — O 12,0 — M. G. 668.  
1) Benzoyl- $\alpha$ -Manelemisäure. Sm. 210° (Ar. 240, 301 C. 1902 [2] 135).
- $C_{44}H_{76}O_2$  2) Oleat d. Sitosterin (oder  $C_{45}H_{76}O_2$ ). Sm. 35,5° (H. 34, 475 C. 1902 [1] 744).
- $C_{44}H_{76}O_2$  3) Stearat d. Sitosterin (oder  $C_{45}H_{80}O_2$ ). Sm. 89—90° (H. 34, 472 C. 1902 [1] 744).
- $C_{44}H_{80}O_4$  C 78,5 — H 11,9 — O 9,5 — M. G. 672.  
1)  $\beta$ -Manelemisäure. Sm. 75—76° (Ar. 240, 304 C. 1902 [2] 135).
- $C_{44}H_{62}O_3$  \*1) Anhydrid d. Brassidinsäure (M. 22, 420).
- $C_{44}H_{60}O$  \*2) Anhydrid d. Erukasäure (M. 22, 420).
- $C_{44}H_{90}O_4$  C 83,6 — H 13,9 — O 2,5 — M. G. 632.  
1) Verbindung (aus Gondangwachs). Sm. 51° (R. 20, 74).
- $C_{44}H_{90}O_4$  C 77,4 — H 13,2 — O 9,4 — M. G. 682.  
1) Afelemisäure. Sm. 97—98° (Ar. 240, 318 C. 1902 [2] 136).
- $C_{44}H_{42}O_4N_6$  C 73,5 — H 5,8 — O 8,9 — N 11,7 — M. G. 718.  
1) Verbindung (aus Azobenzol u. s-Diacetyldiphenylhydrazin). Sm. 98,5—99° (C. r. 134, 466 C. 1902 [1] 466).
- $C_{44}H_{50}O_6N_4$  C 72,3 — H 6,8 — O 13,1 — N 7,7 — M. G. 730.  
1) Succinylechinin. Sm. 97° (C. 1901 [2] 865; D. R. P. 128116 C. 1902 [1] 548).
- $C_{44}H_{64}O_{15}N$  1) Säure (aus Digitoxinsäure). Sm. 261—263°.  $Zn_2 + 8(9)H_2O$  (B. 34, 3567).
- $C_{44}H_{61}O_6N$  C 70,3 — H 10,8 — O 17,0 — N 1,8 — M. G. 751.  
1) Amidocerebrinsäureglykosid. Sm. 179° (C. 1902 [2] 460).
- $C_{44}H_{60}O_{34}N_{20}P_4$  1) Guanylsäure. Ag<sub>5</sub> (H. 31, 416).
- $C_{45}H_{40}O_{11}$  C 71,4 — H 5,3 — O 23,3 — M. G. 756.  
1) Tribenzoylflavaspidsäure. Sm. 142—143° (A. 318, 280).
- $C_{45}H_{42}O_4N_6$  C 74,0 — H 5,7 — O 8,8 — N 11,5 — M. G. 730.  
1) Di[ $\beta$ -Phenylamidoformyl- $\beta$ -Phenyl- $\alpha$ -2,4-Dimethylphenylureido]methan. Sm. 203° (Soc. 81, 285 C. 1902 [1] 527).
- $C_{46}H_{30}O_3$  C 77,7 — H 4,2 — O 18,0 — M. G. 710.  
1) Diacetat-Dibenzoat d. Tetraoxyphenanthryl. Sm. 225—226° (A. 322, 172 C. 1902 [2] 283).
- $C_{46}H_{34}O_4$  C 85,0 — H 5,2 — O 9,8 — M. G. 650.  
1) Verbindung (aus d. Verb.  $C_{42}H_{24}O_3Cl_2$ ). Sm. 147° (A. 322, 348 C. 1902 [2] 430).
- $C_{46}H_{50}O_{19}$  C 60,9 — H 5,5 — O 33,6 — M. G. 906.  
1) Hexaacetylkaffeegebrsäure. Sm. 94° (C. 1901 [2] 774).
- $C_{46}H_{52}N_6$  C 80,2 — H 7,6 — N 12,2 — M. G. 688.  
1) 4,4'-Di[Di(4-Dimethylamidophenyl)methylamido]biphenyl. Sm. 242—243° (B. 35, 372 C. 1902 [1] 588).
- $C_{46}H_{49}O_2N_4$  C 80,2 — H 7,0 — O 4,6 — N 8,1 — M. G. 688.  
1) 1,4,5,8-Tetra[2,4-Dimethylphenylamido]-9,10-Anthrachinon (D. R. P. 127458 C. 1902 [1] 507).
- $C_{48}H_{23}O_{11}$  \*1) Tetrabenzoat d. Gallein. Sm. 226° (Am. 26, 124).
- $C_{48}H_{56}N_6$  2) Tetrabenzoat d. Dioxylfluorescein (B. 34, 2640).
- $C_{48}H_{56}N_6$  C 80,4 — H 7,8 — N 11,7 — M. G. 716.  
1) 4,4'-Di[Di(4-Dimethylamidophenyl)methylamido]-3,3'-Dimethylbiphenyl. Sm. 229—230° (B. 35, 372 C. 1902 [1] 588).
- $C_{48}H_{25}O_{25}As_2$  1) Anhydrid d. Triphenylarsinoxid-2,4,5,2',4',5'-Hexacarbonsäure. Sm. 275°. Ag<sub>10</sub> (A. 321, 234 C. 1902 [2] 49).
- $C_{48}H_{40}ON_6$  C 80,5 — H 5,6 — O 2,2 — N 11,7 — M. G. 716.  
1) Verbindung (aus Anilin). Sm. 207—208° (C. r. 135, 743 C. 1902 [2] 1447).
- $C_{48}H_{45}O_{11}N_7$  C 64,4 — H 5,0 — O 19,7 — N 10,9 — M. G. 895.  
1) Penta[Phenylamidoformiat] d.  $\alpha$ -[ $\beta\gamma\delta\epsilon\zeta$ ]-Pentaoxyhexyl]- $\beta$ -Phenylharnstoff. Sm. 305° u. Zers. (325°) (C. r. 134, 293 C. 1902 [1] 565; C. r. 135, 693 C. 1902 [2] 1356).



- $C_{48}H_{56}O_2N_6$  C 77,0 — H 7,5 — O 4,3 — N 11,2 — M. G. 748.  
 1) Dimethyläther d. 4,4'-Di[Di(4-Dimethylamidophenyl)methylamido]-3,3'-Dioxybiphenyl. Sm. 259—260° (B. 35, 373 C. 1902 [1] 588).
- $C_{48}H_{78}O_{13}N$  1) Solanein (C. 1902 [2] 804).  
 $C_{49}H_{30}O_{14}$  C 69,8 — H 3,6 — O 26,6 — M. G. 842.  
 1) Pentabenzoyltanninsäure. Sm. 140° (C. 1902 [2] 1314).  
 $C_{49}H_{90}O_{23}$  C 56,2 — H 8,6 — O 35,2 — M. G. 1046.  
 1) Jalapin (C. 1901 [2] 426).  
 $C_{50}H_{34}O_{11}$  C 74,1 — H 4,2 — O 21,7 — M. G. 810.  
 1) Pentabenzooat d. Katechin a. Sm. 181—183° (Soc. 81, 1171 C. 1902 [2] 199, 702).  
 2) Pentabenzooat d. Katechin b. Sm. 151—153° (Soc. 81, 1166 C. 1902 [2] 199).  
 $C_{50}H_{35}O_{12}$  C 72,3 — H 4,6 — O 23,1 — M. G. 830.  
 $C_{50}H_{72}O_{10}$  1) Tetrabenzooat d. Nataloresinotannol (C. 1901 [1] 1319).  
 C 72,1 — H 8,6 — O 19,2 — M. G. 832.  
 1) Verbindung (aus Illicylalkohol). Sm. 149° (Soc. 75, 720). — \*II, 651.
- $C_{50}H_{52}O_4N_4Cl_2$  1) 1,4-Xylylendistrychniniumchlorid. 2 + PtCl<sub>4</sub>, 2 + 2AuCl<sub>3</sub> (B. 34, 2092).  
 $C_{50}H_{52}O_4N_4Br_2$  2) 1,4-Xylylendistrychniniumbromid. Sm. 291°? + Br<sub>2</sub> (B. 34, 2091).  
 $C_{51}H_{38}O_{12}$  C 72,7 — H 4,5 — O 22,8 — M. G. 842.  
 1) Pentabenzooat d. Nataloin. Sm. 168° (C. 1901 [1] 1319).  
 $C_{51}H_{36}O_6$  C 76,1 — H 11,9 — O 11,9 — M. G. 804.  
 1) Glycerinmyristinpalmitinolein. Sm. 27° (M. 23, 58 C. 1902 [1] 854).  
 $C_{52}H_{66}O_2N_6$  C 77,4 — H 8,2 — O 4,0 — N 10,4 — M. G. 806.  
 1) Ibogain. Sm. 152° (C. r. 133, 749).  
 $C_{52}H_{39}O_{13}N$  \*1) Solanin (C. 1901 [1] 36, 50).  
 $C_{54}H_{34}O_3$  C 88,8 — H 4,6 — O 6,6 — M. G. 730.  
 1) Anhydrid d. Pseudobase C<sub>27</sub>H<sub>15</sub>O<sub>2</sub>. Sm. 248° u. Zers. (B. 34, 3305).  
 $C_{54}H_{34}O_{13}$  C 72,8 — H 3,8 — O 23,4 — M. G. 890.  
 1) Pentabenzooat d. Verb. C<sub>19</sub>H<sub>11</sub>O<sub>5</sub> (G. 32 [2] 18 C. 1902 [2] 906).  
 $C_{54}H_{36}O_{15}$  2) Pentabenzoylanhydroeuxanthinsäure. Sm. 194° (A. 318, 364).  
 $C_{54}H_{36}O_{30}$  C 53,4 — H 7,1 — O 39,5 — M. G. 1214.  
 1) Dekaacetyljalapinsäure (C. 1901 [2] 426).  
 $C_{54}H_{90}O_{45,2}$  C 44,4 — H 6,2 — O 49,4 — M. G. 1458.  
 1) Amylodextrin + H<sub>2</sub>O (C. 1902 [2] 985; A. 324, 204, 238 C. 1902 [2] 1248).  
 $C_{55}H_{104}O_6$  C 76,6 — H 12,1 — O 11,2 — M. G. 860.  
 1) Glycerinpalmitinoleinstearin. Sm. 31,4° (M. 23, 55 C. 1902 [1] 854).  
 2) Glycerid (aus Olivenöl) (C. 1902 [2] 1421).  
 $C_{55}H_{104}O_6ClJ$  1) Chloridjodid d. Glycerid C<sub>55</sub>H<sub>104</sub>O<sub>6</sub> (C. 1902 [2] 1421).  
 $C_{56}H_{74}O_{37}$  C 50,2 — H 5,5 — O 44,2 — M. G. 1338.  
 1) Hexadekaacetat d. Manneotetrose. Sm. oberh. 100° (Bl. [3] 27, 956 C. 1902 [2] 1178).  
 $C_{56}H_{110}O_9N_{29}$  1) Base (aus Thunfischsperma). 3H<sub>2</sub>CO<sub>3</sub> + 13H<sub>2</sub>O, 3H<sub>2</sub>SO<sub>4</sub> + 4H<sub>2</sub>O, Molybdat, Wolframat (G. 32 [2] 223 C. 1902 [2] 1515).  
 $C_{57}H_{108}O_6$  \*1) Glycerinoleindistearin. Sm. 44,5—45° (C. 1902 [1] 1113).  
 $C_{57}H_{110}O_6$  \*1) Glycerintristearin. Sm. 70° (M. 23, 54 C. 1902 [1] 854).  
 $C_{58}H_{74}O_{17}$  C 66,8 — H 7,1 — O 26,1 — M. G. 1042.  
 1) Anhydroprotokosin. Sm. 182° (Ar. 239, 683 C. 1902 [1] 269).  
 $C_{59}H_{100}O_{25}$  C 56,4 — H 7,9 — O 35,7 — M. G. 1256.  
 1) Pentaacetat d. Jalapin (C. 1901 [2] 426).  
 $C_{60}H_{90}O_7N_6P$  1) Phosphat d. Chinin. Sm. 260° (C. 1901 [2] 865).  
 $C_{63}H_{44}O_{16}$  C 71,6 — H 4,2 — O 24,2 — M. G. 1056.  
 1) Hexabenzooat d. Sequoiagerbstoff (C. 1901 [2] 312).  
 $C_{64}H_{90}O_{11}N_7$  1) Bilifuscin (H. 31, 446).  
 $C_{66}H_{132}O_2$  \*1) Aether d. Psyllostearylalkohol. Sm. 96° (H. 32, 356).  
 $C_{68}H_{104}O_{40}$  C 52,3 — H 6,7 — O 41,0 — M. G. 1560.



- 1) Saponin (Verbascumsaponin) oder  $C_{17}H_{26}O_{10}$  (*Ar.* 240, 59 *C.* 1902 [1] 483).



- 1) Hexaäthylester d. Triphenylarsinoxid-2, 4, 5, 2', 4', 5'-Hexacarbonsäureanhydrid. Sm. 193° (*A.* 321, 235 *C.* 1902 [2] 49).



- C 83,3 — H 11,9 — O 4,8 — M. G. 504.

- 1) Candephorbon. Sm. 118—119° (*G.* 32 [2] 169 *C.* 1902 [2] 1330).



- C 43,6 — H 6,3 — O 50,1 — M. G. 1980.

- 1) Grenzextrin I (*C.* 1902 [2] 985; *A.* 324, 233 *C.* 1902 [2] 1248).



- 1) Jodstärke (*C.* 1902 [2] 1036).

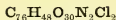


- 1) Jodstärke (*C.* 1902 [2] 1036).



- C 68,1 — H 4,9 — O 27,0 — M. G. 1304.

- 1) Oktobenzoat d. Raffinose. Sm. 98° (*C.* 1901 [1] 508). — \*II, 715.



- 1) Verbindung (aus Filixgerbsäure) (*C.* 1901 [1] 257).



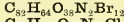
- C 62,1 — H 4,2 — O 31,8 — N 1,8 — M. G. 1408.

- 1) Filixgerbsäureäthyläther?  $Ca_3, Mg_3$  (*C.* 1901 [1] 258).

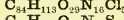


- C 58,0 — H 4,5 — O 35,9 — N 1,6 — M. G. 1696.

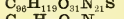
- 1) Filixgerbsäure.  $Ca_3, Ba_3, Mg_3$  (*C.* 1901 [1] 257).



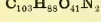
- 1) Dodekabromfilixgerbsäure. Zers. oberh. 60° (*C.* 1901 [1] 257).



- 1) Chlorocaseonsäure (*H.* 34, 73 *C.* 1902 [1] 55).



- \* 1) Proteinochromogen (*C.* 1902 [2] 138).



- C 61,5 — H 4,4 — O 32,7 — N 1,4 — M. G. 2008.

- 1) Tribenzoylfilixgerbsäure. Zers. oberh. 200° (*C.* 1901 [1] 257).



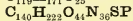
- C 72,7 — H 10,6 — O 16,6 — M. G. 1732.

- 1) Triundekylensäureglycerid (*C.* 1901 [1] 612).

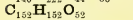


- C 54,0 — H 6,0 — O 40,0 — M. G. 2400.

- 1) Acetylsaponin (*Ar.* 240, 64 *C.* 1902 [1] 483).



- 1) Bufotalin (*C. r.* 135, 47 *C.* 1902 [2] 461, 462).

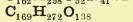


- 1) Quark (*C.* 1902 [1] 330).



- C 65,0 — H 5,4 — O 29,6 — M. G. 2808.

- 1) Benzoylsaponin (*Ar.* 240, 65 *C.* 1902 [1] 483).

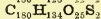


- 1) Casein (*C.* 1902 [1] 330).

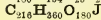


- C 46,4 — H 6,2 — O 47,3 — M. G. 4368.

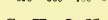
- 1) Polyarabinantrigalaktangeddähsäure +  $H_2O$ . BaO (*Soc.* 79, 1177).



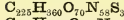
- 1) Verbindung (aus Cellulose) (*C.* 1902 [2] 576).



- 1) Verbindung (aus Cellulose) (*C.* 1902 [2] 576).



- 1) Jodamyloextrin +  $6H_2O$  (*C.* 1902 [2] 987; *A.* 324, 210 *C.* 1902 [2] 1248).



- \* 1) Albumin (*C.* 1901 [2] 1230).



- \* 1) Hämoeyanin (*H.* 33, 370).

# Register der Eigennamen.

## Acetobromglykose

$C_{14}H_{19}O_9Br$

## Acetochlorgalaktose

$C_{14}H_{19}O_9Cl$

## Acetochlorglykose

$C_{14}H_{19}O_9Cl$

Acocantherin  $C_{32}H_{50}O_{12}$

Adrenalin  $C_{16}H_{15}O_3N$

Afamyrin  $C_{30}H_{50}O$

Afelemisäure  $C_{14}H_{20}O_4$

Afeferesen  $C_{30}H_{50}O_2$

Agoniadin  $C_{21}H_{26}O_{12}$

Albaspidin  $C_{25}H_{32}O_8$

Albumin  $C_{225}H_{360}O_{70}N_{55}S_3$

Alkannasäure  $C_{30}H_{25}O_8$

Allomerochinen  $C_9H_{19}ON$

Aloresinotannol  $C_{30}H_{22}O_8$

Amylodextrin  $C_{94}H_{90}O_{45}$

Anäthol  $C_{11}H_{14}O$

Anchusasäure  $C_{30}H_{39}O_7$

Anhalamin  $C_{11}H_{15}O_3N$

Anhydrolupinin  $C_{10}H_{17}N$

Anhydroprotokosin

$C_{58}H_{74}O_{17}$

Anilopentypyrin  $C_{17}H_{17}N_3$

Anilopyrin  $C_{17}H_{17}N_3$

Apionsäure  $C_5H_{10}O_6$

Apiose  $C_5H_{10}O_5$

Aromadendral  $C_{10}H_{14}O$

Aromadendren  $C_{16}H_{24}$

Arsenoanisol  $C_{14}H_{14}O_2As_2$

Artemisin  $C_{15}H_{18}O_4$

Artemisinisäure  $C_{14}H_{10}O_4$

—  $C_{16}H_{20}O_5$

## Barbaloin $C_{21}H_{20}O_9$

Bassorinsäure  $C_{14}H_{20}O_{13}$

Benzaldivanillin  $C_{33}H_{20}O_6$

Benzhydrol  $C_{14}H_{12}O$

Berberidinsäure  $C_{16}H_{11}O_6N$

Berberinal  $C_{20}H_{19}O_5N$

Berberiniumhydroxyd

$C_{20}H_{19}O_5N$

Betit  $C_9H_{11}O_4$

Bilifuscin  $C_{60}H_{96}O_{14}N_7$

Bilirubin  $C_{34}H_{36}O_7N_4$

Bisdinaphtoxanthen

$C_{42}H_{26}O_2$

## Bisdinaphtoxanthenamin

$C_{42}H_{27}O_2N$

## Bisdinaphtoxanthenoxyd

$C_{42}H_{26}O_3$

Bisindigotin  $C_{32}H_{26}O_4N_4$

Bisnaphtaronyl  $C_{24}H_{12}O_4$

Borneolglykuronsäure

$C_{16}H_{26}O_7$

Brasilinsäure  $C_{19}H_{15}O_9$

Brasilsäure  $C_{12}H_{12}O_6$

Brucidin  $C_{23}H_{25}O_3N_2$

Bryoidin  $C_{21}H_{12}O_3$

Bryopogonsäure  $C_{23}H_{22}O_{14}$

Bufonin  $C_9H_{14}O_3$

Bufotalin  $C_{34}H_{46}O_{10}$

—  $C_{119}H_{171}O_{25}$

## Calamen $C_{15}H_{22}$

Calameon  $C_{15}H_{20}O_2$

Calameonsäure  $C_{16}H_{24}O_4$

Callitrolsäure  $C_{30}H_{48}O_5$

Camphan  $C_{10}H_{18}$

Camphanaminsäure

$C_{10}H_{17}O_4N$

Campher glykol  $C_{10}H_{13}O_2$

Camphidin  $C_{10}H_{19}N$

Camphidon  $C_{10}H_{17}ON$

Camphylcarbinol  $C_{11}H_{20}O$

Camphylglykol  $C_{11}H_{20}O_2$

Candeuphorben  $C_{16}H_{26}O_2$

Candeuphorbon  $C_{70}H_{120}O_3$

Carbindirubin  $C_{17}H_{10}O_3N_2$

Caroten  $C_{26}H_{38}$

Casein  $C_{163}H_{255}O_{62}N_{41}SP$

Cellobiose  $C_{12}H_{22}O_{11}$

Celloxin  $C_6H_8O_6$

Cellose  $C_{12}H_{22}O_{11}$

Cephaelin  $C_{35}H_{40}O_4N_2$

Cerebrininsäure  $C_{19}H_{26}O_2$

Cetrarsäure  $C_{20}H_{15}O_9$

Cholesten  $C_{27}H_{46}$

Chromosantonin  $C_{15}H_{18}O_3$

Chrysanisäure  $C_{16}H_{12}O_4N_2$

Chrysodiphensäure  $C_{15}H_{12}O_4$

Chuchuarin  $C_{20}H_{12}O_2N_2$

Cinchonin  $C_{18}H_{22}ON_2$

Cingensäure  $C_9H_{18}O_4$

## Citropten $C_{11}H_{10}O_4$

Coccinsäure  $C_{21}H_{16}O_{10}$

Cörulein  $C_{30}H_{10}O_6$

Confluentin  $C_{37}H_{50}O_{10}$

Coriameyrin  $C_{15}H_{13}O_5$

Corycavamin  $C_{21}H_{21}O_5N$

Corydaldin  $C_{11}H_{13}O_3N$

Corydilsäure  $C_{17}H_{15}O_5N$

Corydin  $C_{21}H_{23}O_4N$

Corytuberin  $C_{19}H_{23}O_4N$

Cumarophenazin  $C_{14}H_8ON_2$

Cysteinsäure  $C_3H_7O_6NS$

Cystinhydanthionsäure

$C_8H_{14}O_6N_4S_2$

## Decarbousnol $C_{17}H_{18}O_5$

Dehydroäscoreein

$C_{18}H_{18}O_7N_3$

Dehydrobrasilsäure  $C_{12}H_{10}O_6$

Dehydrocamphersäure

$C_{10}H_{14}O_4$

Dehydrocamphylcarbinol

$C_{11}H_{18}O$

Dehydrocorybulbin

$C_{21}H_{21}O_4N$

Dehydromenthyllcarbinol

$C_{11}H_{20}O$

Dehydroxypropynopinakol-

alkohol  $C_{32}H_{22}O$

Dehydrothio-m-Xylidin

$C_{16}H_{16}N_8S$

Desoxyanthrapurpurin

$C_{14}H_{10}O_4$

Desoxyflavopurpurin

$C_{14}H_{10}O_4$

Desylzimmtsäure  $C_{23}H_{18}O_3$

Dextrin  $C_6H_{10}O_5$

Dextrinose  $C_{12}H_{22}O_{11}$

Dhurrin  $C_{14}H_{17}O_2N$

Dhurrinsäure  $C_{14}H_{15}O_9$

Dianthranol  $C_{28}H_{18}O_2$

Dianthron  $C_{28}H_{18}O_2$

Didehydrocampholen  $C_9H_{14}$

Didinaphtoxanthylen

$C_{42}H_{24}O_2$

Digitonin  $C_{28}H_{47}O_{14}$

Digitosäure  $C_{27}H_{44}O_7$

Dinaphtophenazinoxazin

$C_{23}H_{17}ON_5$

Dinaphtoxanthan  $C_{21}H_{14}O$

Dinaphtoxanthidrol  $C_{21}H_{14}O_2$

Disalicylid  $C_{14}H_8O_4$

Dulcin  $C_9H_{12}O_3N_2$

Echinopsin  $C_{11}H_6ON$

Elaeostearinsäure  $C_{18}H_{30}O_2$

Ephedrin  $C_{10}H_{15}ON$

Epiosin  $C_{16}H_{15}N_2$

Erythrosin  $C_{26}H_8O_5J_4$

Eucain  $C_{19}H_{27}O_4N$

Eudesmiasäure  $C_{14}H_{18}O_2$

Eupitton  $C_{22}H_{26}O_9$

Eupittonschwarz  $C_{19}H_{14}O_9$

Eupyrin  $C_{19}H_{21}O_5N$

Evernursäure  $C_{22}H_{24}O_8$

Excoëcarin  $C_{15}H_{12}O_5$

Excoëcaron  $C_{18}H_{16}O_5$

Ficocerylalkohol  $C_{17}H_{28}O$

Ficocerylsäure  $C_{17}H_{26}O_2$

Flixgerbsäure  $C_{32}H_{76}O_{35}N_2$

Filixsäure  $C_{35}H_{38}O_{12}$

Flavaspidsäure  $C_{21}H_{28}O_8$

Fluorencinolin  $C_{16}H_{11}N$

Formononetin  $C_{19}H_{14}O_5$

Galaheptosaminsäure

$C_7H_5O_2N$

Galaktamin  $C_6H_5O_5N$

Galaktosidogalaktose

$C_{12}H_{22}O_{11}$

Galaktosidoglykose

$C_{12}H_{22}O_{11}$

Gallen  $C_{26}H_{12}O_7$

Gentianose  $C_{18}H_{32}O_{16}$

Gentiobiose  $C_{19}H_{32}O_{11}$

Gitonsäure  $C_{26}H_{44}O_6$

Glaucin  $C_{21}H_{25}O_4N$

Glucamin  $C_6H_{15}O_5N$

Glycylglycin  $C_4H_8O_3N_2$

Glykamin  $C_4H_{16}O_5N$

Glykocholeinsäure

$C_{27}H_{15}O_5N$

Glykolurein  $C_6H_6O_3N_2$

Glykosaminsäure  $C_6H_{13}O_6N$

Glykosidogalaktose

$C_{12}H_{22}O_{11}$

Grenzextrin  $C_{36}H_{62}O_{31}$

—  $C_{75}H_{124}O_{62}$

Guanazoguanazol  $C_4H_6N_6$

Guanylsäure  $C_{44}H_{66}O_{34}N_{20}P_4$

Hämatommin  $C_{10}H_{10}O$

Hämein  $C_3H_{35}O_4N_4Fe$

—  $C_{35}H_{84}O_4N_4Fe$

Hämopyrrol  $C_5H_{13}N$

Harman  $C_{22}H_{16}N_2$

Hexamethylenimin  $C_6H_{12}N$

Homoalantosäure  $C_8H_{16}O_4N_4$

Homocarvomenthen  $C_{11}H_{20}$

Homolimonen  $C_{11}H_{15}$

Homomenthen  $C_{11}H_{20}$

Homonataloin  $C_{22}H_{24}O_{10}$

Homoparacopaivasäure

$C_{15}H_{25}O_3$

Homopilomalsäure  $C_8H_{14}O_5$

Homopilosäure  $C_9H_{14}O_4$

Hoptenbittersäure  $C_{20}H_{28}O_5$

İbogain  $C_{22}H_{66}O_2N_6$

İbogin  $C_{26}H_{32}O_2N_2$

İllurinsäure  $C_{30}H_{28}O_3$

İmidurazoguanazol  $C_4H_5ON_7$

İmidurazimidurazol

$C_4H_4O_2N_6$

İminopyrin  $C_{11}H_{13}N_3$

İndigoimid  $C_{16}H_{11}ON_3$

İndigoorth  $C_{32}H_{20}O_4N_4$

İndoxyloessigsäure

$C_{10}H_9O_3N$

Infracampholensäure

$C_{19}H_{14}O_2$

Isoalantolsäure  $C_{15}H_{22}O_3$

Isobarbaloin  $C_{21}H_{20}O_9$

Isobenzaldehyoxybenzoin

$C_{21}H_{16}O$

Isobryopogonsäure  $C_{28}H_{22}O_{14}$

Isochavibetol  $C_{10}H_{12}O_2$

Isochinopyridin  $C_{12}H_8N_2$

Isocorybulbin  $C_{21}H_{25}O_4N$

Isocumalinsäure  $C_6H_4O_4$

Isodehydrocamphersäure

$C_{10}H_{14}O_4$

Isolydrochelidonsäure

$C_7H_{15}O_5$

Isoliron  $C_{18}H_{20}O$

Isokairolin  $C_{10}H_{13}N$

Isolaktose  $C_{12}H_{22}O_{11}$

Isomesitylnitrimin  $C_6H_{10}O_2N_2$

Isopikrinsäure  $C_6H_3O_7N_3$

Isopilocarpinsäure

$C_{11}H_{18}O_4N_2$

$C_{11}H_{15}O_5N_2$

Isoprensäure  $C_8H_{10}O_4$

Isopuron  $C_8H_8O_2N_4$

Isosalicylsäure  $C_7H_6O_3$

Isostilben  $C_{14}H_{12}$

Isotropidin  $C_6H_{13}N$

Jacarandin  $C_{14}H_{12}O_5$

Jalapin  $C_{49}H_{90}O_{23}$

Jalapinsäure  $C_{34}H_{66}O_{30}$

Jodamylodextrin

$C_{216}H_{360}O_{150}J_3$

Jodopheuin  $C_{20}H_{25}O_4N_2J_2$

Kämpferol  $C_{15}H_{10}O_6$

Kakodylzimmtsäure

$C_{11}H_{15}O_4As$

Kanarin  $C_8H_8ON_3S_7$

Karabin  $C_{21}H_{49}O_8$

Katechin  $C_{15}H_{18}O_6$

Katin  $C_{10}H_{18}ON_2$

Kaurinolsäure  $C_{17}H_{34}O_2$

Kaurinsäure  $C_{16}H_{16}O_2$

Kaurolsäure  $C_{17}H_{24}O_2$

Kauronolsäure  $C_{18}H_{34}O_2$

Kephalin  $C_{32}H_{52}O_{13}NP$

Kosidin  $C_{31}H_{46}O_{11}$

Lactophenin  $C_{11}H_{15}O_3N$

Leprarin  $C_{19}H_{18}O_9$

Leucinimid  $C_{12}H_{22}O_2N_2$

Leukoëpittion  $C_{28}H_{25}O_9$

Limonenol  $C_{10}H_{16}O$

Limonenon  $C_{10}H_{14}O$

Lippial  $C_{16}H_{18}O$

Lobarsäure  $C_{24}H_{26}O_8$

Lotoflavin  $C_{12}H_{10}O_5$

Lotusin  $C_{28}H_{31}O_{16}N$

Lotusinsäure  $C_{28}H_{32}O_{18}$

Lupinin  $C_{10}H_{16}ON$

Lupininsäure  $C_{10}H_{17}O_2N$

Mandragorin  $C_{15}H_{19}O_2N$

Manelemisäure  $C_{27}H_{56}O_4$

—  $C_{14}H_{30}O_4$

Maneleresen  $C_{12}H_{30}O$

Mankopalsäure  $C_8H_{14}O_2$

Mankopalinsäure  $C_8H_{12}O_2$

Mankopalsäure  $C_{10}H_{15}O_2$

Mankopaloressen  $C_{20}H_{32}O$

Manneotetrose  $C_{24}H_{42}O_{11}$

Manninotrisäure  $C_{15}H_{32}O_{17}$

Manninotriose  $C_{18}H_{32}O_{16}$

Menthylcarbinol  $C_{11}H_{22}O$

Menthylglykyl  $C_{11}H_{22}O_2$

Merimin  $C_8H_8N_2$

Mesitylnitrimin  $C_6H_{10}O_2N_2$

Mesoporphyrin  $C_{16}H_{16}O_2N_2$

Mesotan  $C_6H_{10}O_4$

Mesoxalylguanidin  $C_4H_5O_4N_8$

Metabrenztraubensäure

$C_6H_5O_6$

Metasaccharopentose

$C_5H_6O_4$

Methylenbisfluoren  $C_{27}H_{18}$

Methylrubazonsäure

$C_{21}H_{29}O_2N_5$

Molkeneiweiss  $C_{22}H_{37}O_{10}N_6$

Morphigenin  $C_{14}H_{11}ON$

Musculamin  $C_8H_{21}N_8$

Myrcenol  $C_{10}H_{18}O$

Myricitrin  $C_{21}H_{22}O_{13}$

Naphtocyaminsäure

$C_{23}H_{13}O_9N_8$

Nataloin  $C_{29}H_{20}O_{10}$

Nataloreinotannol  $C_{22}H_{22}O_8$

Nikotein  $C_{10}H_{12}N_2$

Nikotellin  $C_{10}H_3N_2$   
 Nikotinin  $C_{10}H_4N_2$   
 Norbrasilinsäure  $C_{10}H_{12}O_9$   
 Noreupitton  $C_{19}H_{14}O_9$

Ocellatsäure  $C_{31}H_{18}O_{12}$   
 Ocimen  $C_{10}H_{16}$   
 Onon  $C_{39}H_{32}O_{12}$   
 Ononetin  $C_{18}H_{16}O_5$   
 Ononin  $C_{25}H_{26}O_{11}$   
 Onospin  $C_{34}H_{26}O_{10}$   
 Orbiculatsäure  $C_{22}H_{36}O_7$   
 Oroxylin  $C_{19}H_{14}O_6$   
 Osyritrin  $C_{27}H_{28}O_{16}$

Paracopaivasäure  $C_{20}H_{32}O_3$   
 Parasaron  $C_{36}H_{48}O_9$   
 Phenanthrazin  $C_{28}H_{16}N_2$   
 Phenanthroxazin  $C_{28}H_{17}ON$   
 Phenazonoxon  $C_{12}H_7O_2N$   
 Phenofluoridin  $C_{18}H_{12}N_4$   
 Phenokoll  $C_{10}H_{14}O_5N_2$   
 Phönicein  $C_{14}H_{14}O_6$   
 Phönin  $C_{14}H_{16}O_7$   
 Phylloporphyrin  $C_{16}H_{18}ON_2$   
 Picipimarinsäure  $C_{12}H_{20}O_2$   
 Picipimarolsäure  $C_{15}H_{28}O_2$   
 Picoresen  $C_{19}H_{30}O$   
 Pikrolichenin  $C_{40}H_{52}O_{10}$   
 Pilocerefin  $C_{30}H_{44}O_4N_2$   
 Pilomalsäure  $C_7H_{12}O_5$   
 Pilopiniinsäure  $C_8H_{11}O_4N$   
 Pilopsäure  $C_7H_{10}O_4$   
 Piluvinsäure  $C_8H_{14}O_5$   
 Pisangeerylalkohol  $C_{13}H_{28}O$   
 Pisangcerylsäure  $C_{24}H_{44}O_2$   
 Pisangwachs  $C_{27}H_{44}O_2$   
 Piscidininsäure  $C_{11}H_{12}O_7$   
 Plumierid  $C_{21}H_{26}O_{12}$   
 Plumieridsäure  $C_{20}H_{24}O_{12}$   
 Porphyrexid  $C_5H_6ON_4$   
 Porphyrexin  $C_5H_{10}ON_4$   
 Protamin  $C_{35}H_{72}O_9N_{18}$   
 Protamyrin  $C_{30}H_{50}O$   
 Protocetrarsäure  $C_{19}H_{16}O_9$   
 Protokosin  $C_{29}H_{38}O_9$   
 Protolichesterinsäure  
 $C_{18}H_{32}O_6$

Pseudoagaricinsäure  
 $C_{39}H_{66}O_6$   
 Pseudoononin  $C_{34}H_{52}O_{10}$   
 Pseudoonospin  $C_{24}H_{24}O_{11}$   
 Psyllasäure  $C_{33}H_{66}O_2$   
 Psyllostearylsäure  $C_{33}H_{66}O_2$   
 Pulegen  $C_9H_{16}$   
 Pulegenon  $C_9H_{14}O$   
 Pulenin  $C_9H_{16}$   
 Pulenol  $C_9H_{18}O$   
 Pulenon  $C_9H_{16}O$   
 Pulmoform  $C_{15}H_{16}O_4$   
 Puron  $C_5H_7O_2N_4$   
 Purpurogallin  $C_{11}H_8O_5$   
 Pyrantin  $C_{12}H_{15}O_3N$   
 Pyrodypnopinalkolalkohol  
 $C_{39}H_{74}O$   
 Pyrodypnopinalkolen  $C_{32}H_{22}$   
 Pyrodypnopinakolin  $C_{32}H_{22}O$

Quark  $C_{140}H_{222}O_{44}N_{36}SP$   
 Quercetagetin  $C_{15}H_{10}O_8$

Rhodoose  $C_8H_{12}O_5$   
 Rhododendrin  $C_{16}H_{22}O_7$   
 Rhododendrol  $C_{10}H_{12}O_2$   
 Robinin  $C_{33}H_{42}O_{20}$   
 Rubidinsäure  $C_{28}H_{24}O_{12}$

Sabinenalkohol  $C_9H_{16}O$   
 Salochinin  $C_{27}H_{28}O_4N_2$   
 Salven  $C_{10}H_{18}$   
 Samaderin  $C_{29}H_{34}O_{11}$   
 Santalensäure  $C_{18}H_{20}O_2$   
 Sapogenin  $C_5H_8O$   
 Saponin  $C_{88}H_{194}O_{40}$   
 Scutellarein  $C_{15}H_{10}O_6$   
 Scutellarin  $C_{21}H_{20}O_{12}$   
 Selenopyrin  $C_{11}H_{12}N_3Se$   
 Sequoiaagerbstoff  $C_{21}H_{20}O_{10}$   
 Sesamin  $C_{33}H_{30}O_{10}$   
 Silveolsäure  $C_{14}H_{20}O_2$   
 Silvinolsäure  $C_{14}H_{24}O_2$   
 —  $C_{15}H_{26}O_2$   
 Sitosterin  $C_{30}H_{48}O$   
 Solanein  $C_{45}H_{78}O_{18}N$   
 Solanidin  $C_{41}H_{71}O_2N$

Solanin  $C_{42}H_{75}O_{12}N$   
 Storesinol  $C_{17}H_{26}O_2$   
 Stylopin  $C_{16}H_{19}O_5N$   
 Styrakol  $C_{16}H_{14}O_3$   
 Styresinol  $C_{16}H_{26}O_2$   
 Styrogenin  $C_{26}H_{40}O_3$   
 Sugiol  $C_{30}H_{18}O$   
 Sulfeton  $C_7H_{12}S_2$   
 Sulfoneton  $C_7H_{12}O_4S_2$

Tetramethylenglykol  
 $C_4H_{10}O_2$   
 Thebenidin  $C_{15}H_9N$   
 Threose  $C_4H_8O_4$   
 Thujonoxylglykuronsäure  
 $C_{16}H_{24}O_8$   
 Toluidin  $C_7H_7N$   
 Toluylenhydrat  $C_{14}H_{14}O$   
 Tragantanylanbassorin-  
 säure  $C_{24}H_{14}O_{20}$   
 Tragantose  $C_5H_{10}O_5$   
 Triticonukleinsäure  
 $C_{42}H_{68}O_{30}N_{16}P_4$   
 Tropäolinsäure  $C_8H_9O_4NS_2$   
 Tropen  $C_8H_{13}N$   
 Tutin  $C_{17}H_{20}O_7$

Umbilicarsäure  $C_{25}H_{22}O_{10}$   
 Urazin  $C_2H_4O_2N_4$   
 Urazoguanazol  $C_4H_4O_2N_6$   
 Ursocholeinsäure  $C_{19}H_{30}O_4$   
 Usnetinsäure  $C_{14}H_{14}O_5$   
 Usnidinsäure  $C_{14}H_{14}O_6$   
 Usnidol  $C_{13}H_{14}O_4$

Valyl  $C_6H_{19}ON$   
 Violaquercitrin  $C_{27}H_{28}O_{16}$   
 Violein  $C_{26}H_{10}O_6$

Xylan  $C_{10}H_{15}O_9$   
 Xylanbassorinsäure  
 $C_{19}H_{28}O_{17}$

Yohimbin  $C_{22}H_{28}O_8N_2$   
 Yucelresen  $C_{23}H_{44}O$





Verlag von **Leopold Voss** in Hamburg.

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